

County of Placer Stormwater Management Plan 2003-2008



Small Municipal Stormwater Program
Revised March 1, 2004

Prepared by Placer County
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CERTIFICATION COUNTY OF PLACER

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COUNTY OF PLACER

Chairman, Board of Supervisors

ATTEST:

Clerk of the Board

As authorized by Board Agenda Item No. _____ and required by 122.22 Code of Federal Regulations.

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EXECUTIVE SUMMARY

This Stormwater Management Plan (SWMP, or Plan) describes a comprehensive program to reduce pollution in stormwater runoff in portions of western Placer County ("County"). The program is designed to comply with the Clean Water Act and meet federal and State NPDES (National Pollutant Discharge Elimination System) stormwater regulations for small municipal separate storm sewer systems (MS4s). The Central Valley Regional Water Quality Control Board will issue an NPDES permit to Placer County based upon this Plan. The permit must be renewed every five years, next occurring in 2008. The Porter-Cologne Water Quality Act provides for civil, administrative, and criminal penalties, some greater than the Clean Water Act. Under the Clean Water Act, third parties may challenge the permit at any time.

Placer County waterways have many uses including recreation, habitat, fishing, and water supply. Water quality protection requires a diverse program aimed at those who drain to our streams. The rapid growth in western Placer could threaten water quality in a number of ways:

- Everyday human activities send many types of pollutants into creeks and streams, including oils and hydrocarbons from automobiles, trash, pesticides and fertilizer from landscaping, and sediment resulting from construction sites and intensive land uses.
- Increases in impervious surfaces due to buildings and pavement send more water more quickly to creeks and streams. This can contribute to erosion, changes in stream temperature, and changes in the types and amounts of pollutants the water gathers as it drains.
- Urban development creates new pollution sources as population density increases and brings with it proportionately higher levels of vehicle emissions, vehicle maintenance wastes, municipal sewage, pesticides, household wastes, pet wastes, trash, etc., which can be washed into the storm drain system. Urban areas generally contribute a higher level of pollutant load in streams than rural areas.

Under the Plan, the County will endeavor to reduce the amount of pollutants reaching our waterways from human activities by implementing the six minimum control measures required in the federal law. These are:

- Public Education and Outreach on Stormwater Impacts
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations

In addition to the six minimum control measures required by the federal law, the State general permit imposes Discharge Prohibitions, Effluent Limitations, Receiving Water Limitations, New Development design standards, and additional evaluation and reporting requirements.

The NPDES stormwater permit area includes the area shown in [Figure ES-1](#), which is the entire County generally west of and including Foresthill and Colfax. The mountainous areas east of Foresthill and Colfax are not part of the permit area, and no program activities are

proposed here. Placer County portions of the Tahoe Basin are covered under an existing phase I permit, shared with co-permittees South Lake Tahoe and El Dorado County.

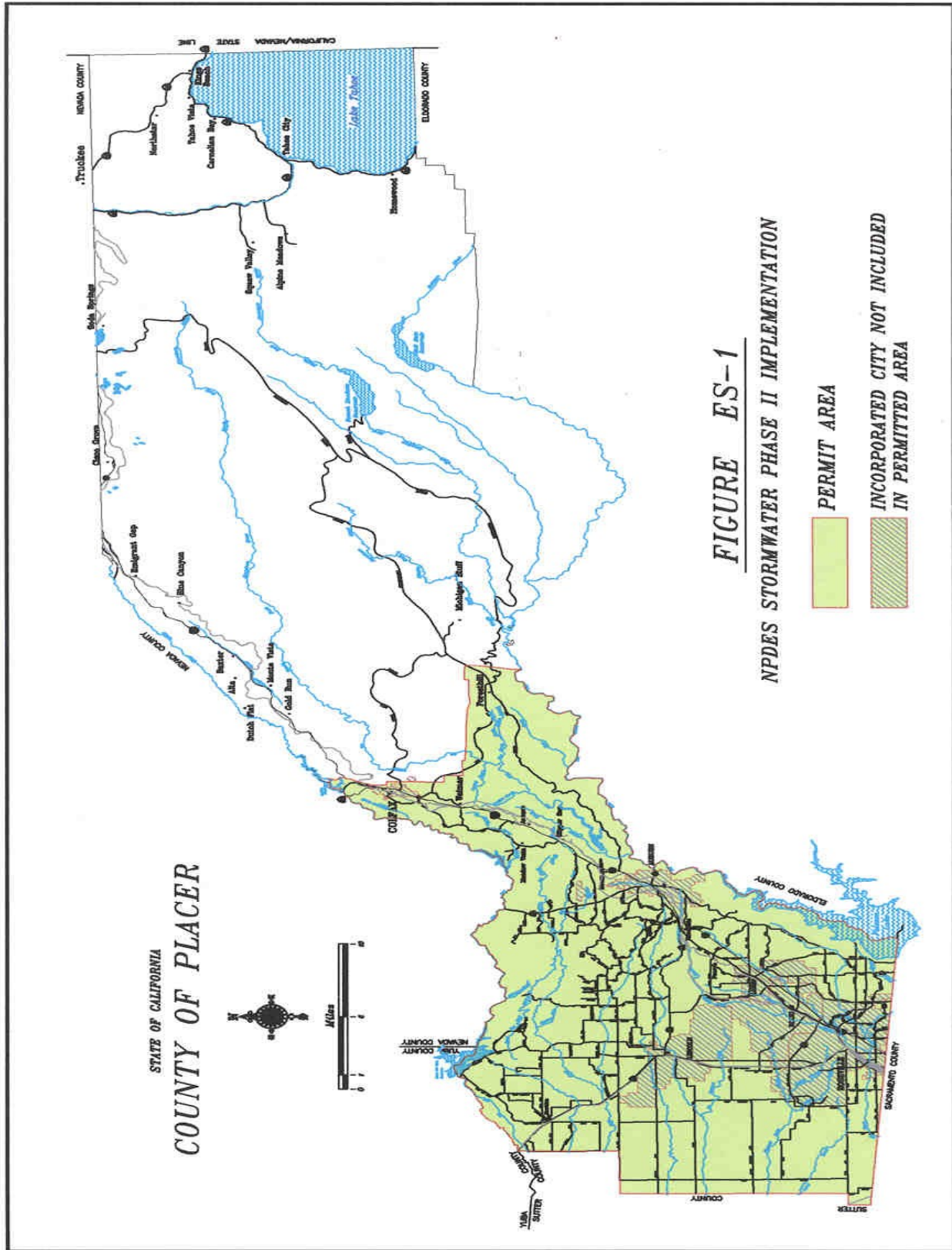
This Placer County Stormwater Management Plan includes specific Best Management Practices that support the six minimum control measures and the State's general permit. These program activities and timelines are summarized in [Figure 3-1](#).

Funding for the program is anticipated to come from a combination of the general fund, road fund for qualified activities within public rights of way, sharing of program elements with other jurisdictions, grant funding, and potentially from new development fees. Federal and State funding will also be necessary, and is anticipated in order to comply with the mandates of the NPDES included herein. Without such funding, the program schedule and content provided in chapter 3 may require modification.

Training will be provided for both County employees and affected members of the public. Periodic training for County personnel involved in aspects of the program will be held at appropriate times. Educational activities aimed at non-County personnel who will can impact stormwater quality, such as developers, business owners, contractors, and engineers, are also proposed.

Program evaluation will be required on a periodic basis to assess the effectiveness of the Best Management Practices (BMPs). Evaluation results will be provided yearly beginning in 2004 to the Regional Board as part of the required annual report.

Figure ES-1 Permit Area



CHAPTER 1. INTRODUCTION

This document presents the Placer County (County) National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Stormwater Management Plan (SWMP). It provides a comprehensive plan to direct the County of Placer Stormwater Management program activities for the years 2003 – 2008. This Plan also includes information to provide its readers with an understanding of the program history and the current status of County stormwater management activities.

Placer County is located generally east of the Sacramento area ([See Figure 1-1](#)). The major western Placer County watersheds include Dry Creek, Pleasant Grove Creek, and Auburn Ravine and surrounding tributaries.

The Dry Creek watershed comprises about 116 square miles in Placer and Sacramento Counties. Its headwaters are located in the upper portions of the Loomis Basin, draining the I-80 corridor from Newcastle and Penryn to Granite Bay, Roseville, and parts of Orangevale and Sacramento County. Dry Creek flows through Rio Linda before emptying into the Northeast Main Drain Canal/Steelhead Creek.

Pleasant Grove Creek generally drains the watershed between Dry Creek and Auburn Ravine. Its headwaters are just north of Penryn Ridge, flowing through Rocklin and Roseville and then through Placer County into the Pleasant Grove Creek Canal in Sutter County.

The Auburn Ravine watershed begins in the City of Auburn and drains much of the western Placer foothills and the City of Lincoln. Auburn Ravine then flows west through Placer County, to the Eastside Canal and Sacramento River in Sutter County.

At the 2000 census, 75,262 persons lived within the program area ([Figure ES-1](#)), which is the entire County generally west of (and including) Foresthill and Colfax. The entire unincorporated portion of Placer County had a population of approximately 101,000 persons in 2000. ([See Figure 1-2](#)) Between 1990 and 2000, growth in all of the unincorporated area of the County, including some areas that are not within the Phase II program boundaries, was 20.3%. The non-program areas of the County (Tahoe and mountain areas) are growing at a lesser rate than the program areas; the program area is estimated to have grown 23% from 1990 to 2000. Due to the relatively high growth rate in the cities within Placer County, the County as a whole grew by 43.8% during this same time period.

Figure 1-1 Placer County Location

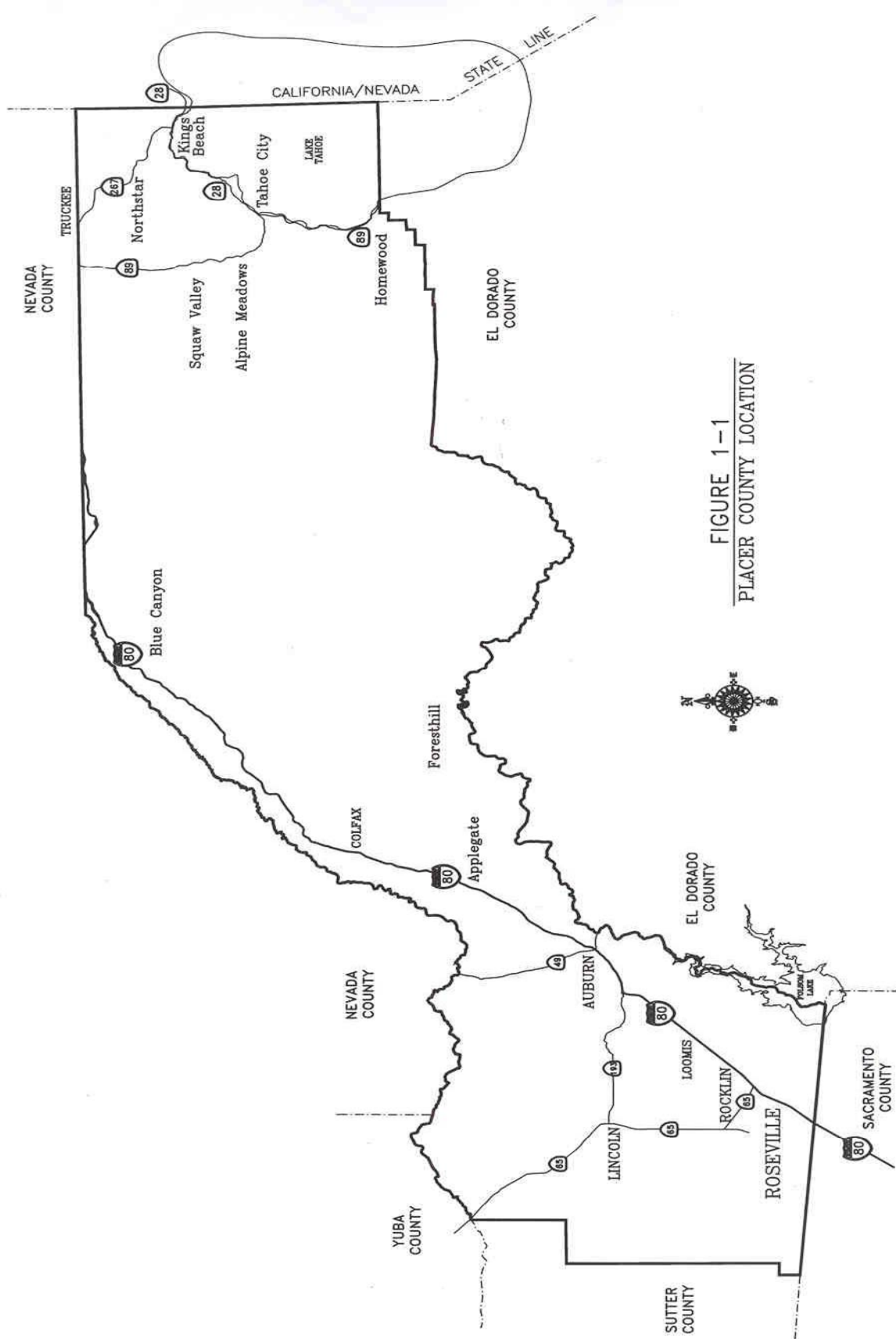


Figure 1-2 Population Figures

	1990 (Actual)	2000 (Actual)	2010 (Projected)	Percent Change 1990-2000
Community				
Placer County (all)	172,796	248,399	339,300	43.8%
Cities in Placer County				
Auburn	10,653	12,462	14,090	17.0%
Colfax	1,306	1,496	2,065	14.5%
Lincoln	7,248	11,205	38,350	54.6%
Loomis	5,705	6,260	8,400	9.7%
Rocklin	19,033	36,330	50,700	90.9%
Roseville	44,685	79,921	109,160	78.9%
Unincorporated Placer County				
Foresthill area	1,409	1,791	NA	27.1%
Meadow Vista area	3,067	3,096	NA	0.9%
Program area	NA	75,262	NA	NA

NA = not available

Sources: U.S. Census Bureau 1990 and 2000 census figures
Department of Finance Population Estimates for California Cities and Counties
Sacramento Regional Research Institute, SACOG

1987 amendments to the Clean Water Act (CWA) added section 402(p), which established NPDES requirements for municipalities to develop and implement comprehensive stormwater management plans. Under a separate phase I permit, Placer County is a co-permittee, along with the County of El Dorado and City of South Lake Tahoe, for the California portions of the Tahoe Basin Management Unit. NPDES permit number CAG616001 for the Tahoe Basin was issued by the Lahontan Regional Water Quality Control Board on October 12, 2000. The region covered by this phase I permit is not subject to Phase II, and is therefore not addressed by this SWMP. The phase I Tahoe permit area and the area subject to Phase II of the program share existing County regulatory functions that address stormwater quality, such as the County grading and erosion prevention ordinance and land development procedures. The cities of Auburn, Lincoln, Loomis, Rocklin, and Roseville within Placer County have applied for their own permits.

As a designated 'small municipal separate storm sewer system' (MS4) operator, Placer County is subject to the stormwater Phase II program. (See Figure ES-1) The County's emphasis in creating this SWMP for stormwater Phase II is to provide a solid basis for further development of the stormwater quality improvement program. A number of aspects of the program are being additionally developed during the first years of the program. It is expected that as the various program elements are enacted a certain amount of adaptability will be required to assure that the Plan practicably meets current needs.

The Federal government has delegated permitting authority to the State of California. For Placer County, the State assigns authority to the Central Valley Regional Water Quality

Control Board via the State Water Resources Control Board. The State Water Resources Control Board adopted a general permit on April 30, 2003. Placer County has elected to adhere to the general permit rather than apply for its own individual permit or rely upon a 'Separate Implementing Entity'. The deadline to submit a Notice of Intent to Comply (NOI), fee, and stormwater management plan (SWMP) to the Central Valley Regional Water Quality Control Board (CVRWQCB) was March 10, 2003. Placer County submitted these documents to the CVRWQCB prior to this deadline.

This document contains 6 chapters:

- Chapter 1: Introduction This chapter provides an introduction to the Plan along with some background material.
- Chapter 2: Program Management This chapter provides a description of the program structure and staffing. It includes information on the relationship of program activities to activities of other County agencies and departments, and local non-County organizations.
- Chapter 3: Program Elements This chapter describes the heart of the program including how the six minimum control measures and State general permit activities will be applied. This chapter contains the planned activities and timeframes for each of the Best Management Practices.
- Chapter 4: Budget and Staffing This chapter describes the budget and personnel to be dedicated to the program.
- Chapter 5: Monitoring and Evaluation This chapter provides the general approach to program effectiveness evaluation and how program changes will be proposed.
- Chapter 6: Recordkeeping and Reporting This chapter provides the approach to the recordkeeping necessary to be able to evaluate program effectiveness, including information and timeframes for reporting to the State.

CHAPTER 2. PROGRAM MANAGEMENT

This chapter presents the affected County departments, and describes their roles and relationships. No single department within Placer County is responsible for all of the necessary activities; therefore multiple departments have a role in implementation of the Storm Water Management Plan. The participating departments are:

- Office of the County Executive
- Public Works
- Facility Services
- Building Department
- Planning Department
- Environmental Health Division of the Department of Health and Human Services
- Office of County Counsel
- Office of Emergency Services
- Sheriff's Office
- Placer County Flood Control District

Figure 2-1 presents the departments and their relationships for purposes of this program. The relationships shown in this figure. An interdepartmental coordination committee has been established to discuss and further clarify departmental roles, program goals, implementation strategies, data management issues, and related matters. Material results of these discussions will be reported in the annual reports.

Figure 2-1 Departmental Relationships

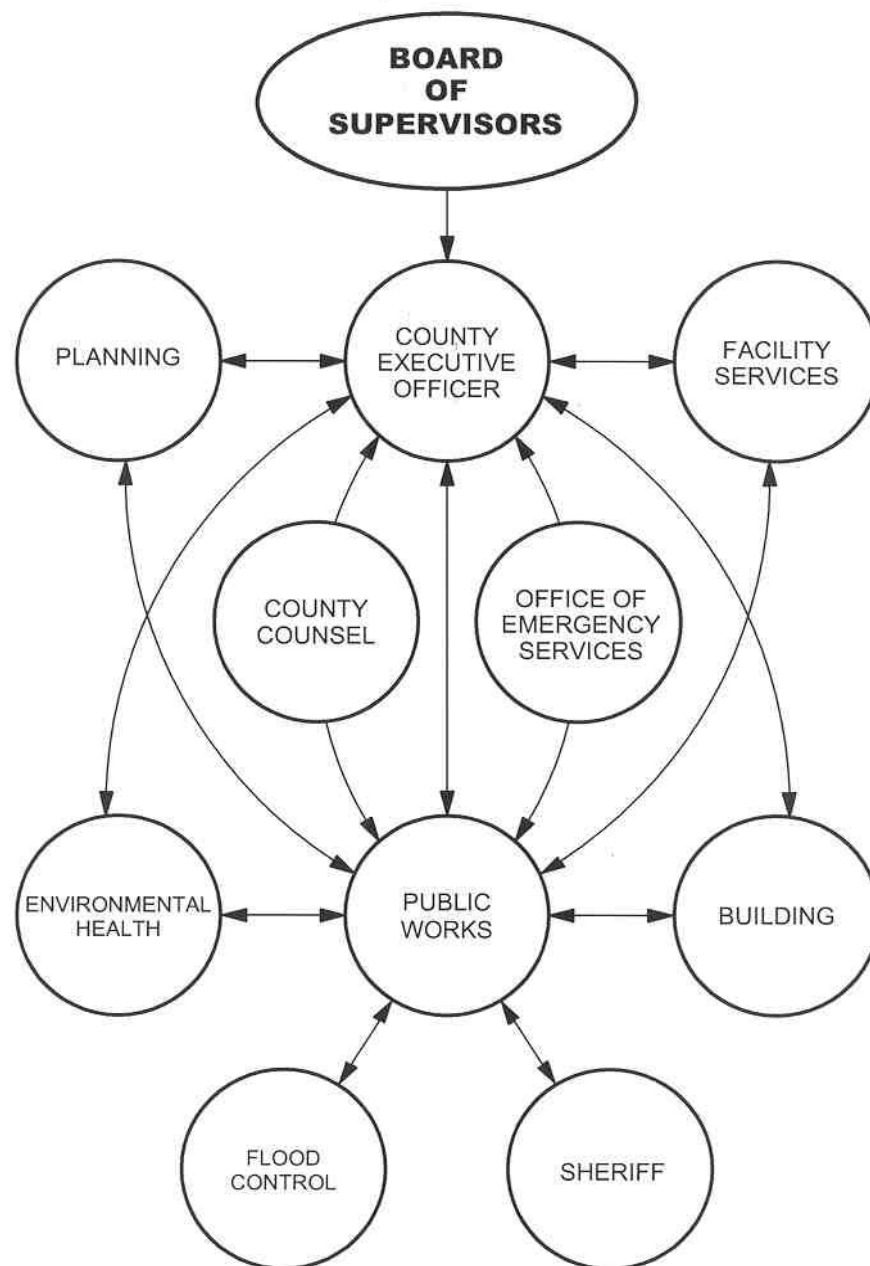


FIGURE 2-1

NPDES STORMWATER PHASE II IMPLEMENTATION
DEPARTMENTAL RELATIONSHIPS

County Departmental Responsibilities

The Office of the County Executive Officer

The Office of the County Executive Officer is responsible for overall oversight of the program and for maintaining communication with the Board of Supervisors, (hearings for adoption of the ordinance, etc.). They will have a role in the illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management, and good housekeeping MCMs.

The Department of Public Works

The Department of Public Works coordinates the day-to-day activities and administration of the program, with substantial assistance and input from other departments as depicted in this Plan. Public Works has a role in all six of the Minimum Control Measures (MCMs), including public education, public participation, illicit discharge detection and elimination, construction site runoff control, and post-construction control enforcement.

The Department of Facility Services

The Facility Services Department is responsible for carrying out Plan elements that affect County parks and County-owned buildings and grounds. They are responsible for elements within the illicit discharge detection and elimination MCM, for construction site runoff controls and post-construction controls for projects they manage, and for the Pollution Prevention/Good Housekeeping for Municipal Operations.

The Building Department

The Building Department will assist with illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management, and training within the good housekeeping for municipal operations MCMs.

The Planning Department

The Planning Department will assist with public education and outreach, illicit discharge detection and elimination, construction site runoff control, post-construction stormwater management, and training.

The Environmental Health Division

The Environmental Health Division of the Department of Health and Human Services will assist with portions of all six MCMs, including public education, public participation, illicit discharge detection and elimination, construction site runoff control, and post-construction control enforcement.

The Office of County Counsel

The Office of County Counsel assists with legal matters on an as-needed basis, including development of the ordinances. They will assist with the illicit discharge detection and elimination, construction site runoff control, and post-construction stormwater management MCMs.

The Office of Emergency Services

The Office of Emergency Services will be responsible for element 3-6, hazardous materials response, under the illicit discharge detection and elimination MCM.

The Sheriff's Department

The Sheriff's Department will assist with element 3-7; establish hotline for public inquiries and reports within the illicit discharge detection and elimination MCM.

The Placer County Flood Control District

The Placer County Flood Control District sponsors a yearly stream channel maintenance program on the Dry Creek watershed. They will be responsible for element 6-6, stream channel maintenance under the good housekeeping MCM, and will assist with the public education and outreach, public involvement, illicit discharge and detection, and construction site runoff control elements.

Figure 2-2 summarizes the responsible and assisting departments for each Best Management Practice. A responsible department leads in carrying out the listed element, with the support of the assisting department(s). Under the guidance of the Office of the County Executive, the named departments are convening in the first year of the program to work out specific relationships and duties; responsibilities may ultimately differ from Figure 2-2 and the statements in Chapter 3. Any such changes will be described in the annual reports.

Figure 2-2 County Department Responsibilities

		RESPONSIBLE/ASSISTING DEPARTMENT **									
		FACILITY SERVICES	PUBLIC WORKS	ENVIRONMENTAL HEALTH	BUILDING	PLANNING	COUNTY COUNSEL	COUNTY EXECUTIVE	EMERGENCY SERVICES	SHERIFF	FLOOD CONTROL
BEST MANAGEMENT PRACTICES											
1. Public Education + Outreach on Stormwater Impacts											
1-1	Develop and Distribute Materials to Increase Public Awareness		R	A				A			
1-2	Assess, Prioritize, and Outreach to Target Sources of Pollution		R			A		A			
1-3	Submit Materials to Local Media		R	A				A			A
1-4	Create and Maintain Website		A	A				R			
1-5	Additional Public Education Activities		R	A		A		A			A
2. Public Involvement/Participation											
2-1	Develop Citizen's Advisory Committee (CAC)		A	A				R			
2-2	Meet and Follow up with CAC		A	A				R			
2-3	Develop and Implement Storm Drain Stenciling Program	A	R					A			A
2-4	Additional Public Participation Activities		R	A				A			A
2-5	Present Annual Report to the Board of Supervisors		R					A			
3. Illicit Discharge Detection and Elimination											
3-1	Storm Drain Outfall Mapping	A	R								
3-2	Effectively Prohibit Non-stormwater Discharges and Implement Enforcement Procedures and Actions		R	A	A	A	A	A			
3-3	Assess Illicit Discharge Priorities		R	A	A	A		A			
3-4	Perform Illicit Discharge Inspections	A	R	A	A	A					
3-5	Hazardous Materials Response		A	A					R		
3-6	Establish Hotline for Public Inquiries and Reports		R					A		A	
3-7	Development Community Outreach	A	R		A	A		A			
3-8	Household Hazardous Materials Collection	R	A								
4. Construction Site Runoff Control											
4-1	Revise Construction Policy Documents	A	R	A	A	A	A				
4-2	Revise Construction Processes	A	R	A	A	A	A				
5. Post Construction Stormwater Management											
5-1	Revise Post-Construction Policies and Processes	A	R	A	A	R	A				
5-2	Apply Post-Construction and Attachment 4 BMPs	A	R	A	A	R	A				
5-3	Long-term Operation and Maintenance of BMPs	A	R	A							
5-4	Evaluate BMP Effectiveness	R	R			A					
6. Good Housekeeping for Municipal Operations											
6-1	Public Facilities Cleaning	R	R								
6-2	Perform Stream Channel Maintenance		A								R
6-3	BMP Installation at County Facilities	R	R								
6-4	Review and Revise Operations Manuals County Facilities	R	R								
6-5	Train Staff	R	R		A	A					
Note: All program years run from July 1 thru June 30, except for 03/04 which runs from March 10, 2003 until June 30, 2004											
** R = Responsible Department A = Assisting Department											

Department	Symbol	Responsible Contact	Telephone
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

Other Cooperating Entities

In July of 2002, Placer County created the Placer Regional Stormwater Coordination Group (PRSCG) in order to share information about Phase II with the surrounding jurisdictions and examine the possibility of sharing cooperative permits or elements. Representatives of the cities of Auburn, Lincoln, Rocklin, Loomis, Colfax, and Roseville, the Placer County Flood Control District, the Placer County Office of Education, and various other affected entities have met monthly since inception. Although each MS4 has decided to submit a separate application to the State for the initial permit cycle, the group plans to continue meeting throughout development of the SWMPs and first year(s) of the program in order to assist one another, provide some program consistency region-wide, and to look for ways to share permit elements. One area of agreement reached by the PRSCG is the desire to share resources for the public information element of the program. Numerous ideas have been proposed at the PRSCG meetings and we expect to be able to collaborate regionally on this and other elements.

CHAPTER 3. PROGRAM ELEMENTS

Overview

This chapter provides guidance to staff and others for the years 2003-2008 to meet the requirements of the six MCMs and State general permit.

The six minimum control measures are:

1. Public Education and Outreach on Stormwater Impacts
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping for Municipal Operations

Subsequent parts of this chapter describe specific Best Management Practices (BMPs) for each MCM. The BMPs selected to fulfill each of the six MCMs are based upon the following criteria:

- Placer County needs
- Potential for successful execution
- Expected effect upon water quality
- Economic impact
- Adaptability to future program changes

Figure 3-1 summarizes the Placer County program and timelines to meet the MCMs. Each individual activity is numbered sequentially within the MCM, for example '1-3' is public education and outreach item number 3. The intended program year(s) for implementation is identified. Further sections of this chapter describe each activity in detail, including identifying the goal of the activity, entity responsible for execution, month year time frames, and measurable goals. Within each MCM there is a summary table that repeats information from the text, listing the elements that fulfill the program requirements, responsible departments, assisting departments, implementation timeframe, and measurable goals.

The State general permit contains Discharge Prohibitions, Effluent Limitations, Receiving Water Limitations, post-construction design requirements in the form of a Standard Urban Stormwater Management Plan (SUSMP), and the requirement for evaluations and annual reports. These are further described at the end of this chapter.

As used here, all program years run from July 1 through June 30, except for 03/04, which will comprise the period from March 10, 2003 until June 30, 2004.

Exclusions

The Illicit Discharge Detection and Elimination MCM (element 3) will include measures to control illicit discharges and improper disposal of wastes into stormwater. In the execution of this element, Placer County will exclude the following categories of non-stormwater discharges that are not required to be addressed by the State:

1. water line flushing
2. landscape irrigation
3. diverted stream flows
4. rising ground waters
5. uncontaminated ground water infiltration
6. uncontaminated pumped ground water
7. discharges from potable water sources
8. foundation drains
9. air conditioning condensation
10. irrigation water
11. springs
12. water from crawl space pumps
13. footing drains
14. lawn watering
15. individual residential car washing
16. flows from riparian habitats and wetlands
17. dechlorinated swimming pool discharges
18. fire-fighting flows

Figure 3-1 Best Management Practices

		PROGRAM YEAR				
		<u>YEAR 1</u>	<u>YEAR 2</u>	<u>YEAR 3</u>	<u>YEAR 4</u>	<u>YEAR 5</u>
		<u>03/04</u>	<u>04/05</u>	<u>05/06</u>	<u>06/07</u>	<u>07/08</u>
1. Public Education and Outreach on Stormwater Impacts						
1-1	Develop and Distribute Materials to Increase Public Awareness	X	X	X	X	X
1-2	Assess, Prioritize, and Outreach to Target Sources of Pollution	X	X	X	X	X
1-3	Submit Materials to Local Media	X	X	X	X	X
1-4	Create and Maintain Website	X	X	X	X	X
1-5	Additional Public Education Activities		X	X	X	X
2. Public Involvement/Participation						
2-1	Develop Citizen's Advisory Committee	X				
2-2	Meet and Follow up with CAC	X	X	X	X	X
2-3	Develop and Implement Storm Drain Stenciling Program	X	X	X	X	X
2-4	Additional Public Participation Activities		X	X	X	X
2-5	Present Annual Report to the Board of Supervisors		X	X	X	X
3. Illicit Discharge Detection and Elimination						
3-1	Storm Drain Outfall Mapping	X	X	X	X	X
3-2	Effectively Prohibit Non-stormwater Discharges and Implement Enforcement Procedures and Actions	X	X	X	X	X
3-3	Assess Illicit Discharge Priorities			X	X	X
3-4	Perform Illicit Discharge Inspections	X	X	X	X	X
3-5	Hazardous Materials Response	X	X	X	X	X
3-6	Establish Hotline for Public Inquiries and Reports		X	X	X	X
3-7	Development Community Outreach	X	X	X	X	X
3-8	Household Hazardous Materials Collection	X	X	X	X	X
4. Construction Site Stormwater Runoff Control						
4-1	Revise Construction Policy Documents	X				
4-2	Revise Construction Processes	X	X	X	X	X
5. Post-Construction Stormwater Management						
5-1	Revise Post-Construction Policies and Process	X	X	X	X	X
5-2	Apply Post-Construction and Attachment 4 BMPs	X	X	X	X	X
5-3	Long-term Operation and Maintenance of BMPs			X	X	X
5-4	Evaluate BMP Effectiveness			X	X	X
6. Pollution Prevention/Good Housekeeping for Municipal Operations						
6-1	Public Facilities Cleaning	X	X	X	X	X
6-2	Perform Stream Channel Maintenance	X	X	X	X	X
6-3	BMP Installation at County Facilities	X	X	X	X	X
6-4	Review and Revise Operations Manuals for County Facilities			X		
6-5	Train Staff	X	X	X	X	X
Note: All program years run from July 1 through June 30, except for 03/04 which runs from March 10, 2003 until June 30, 2004.						

County Facilities within Program Boundaries

As discussed in Chapter 2 and shown in [Figure ES-1](#), the stormwater Phase II program is applicable to all of the County generally west of, and including, Foresthill and Colfax. Within this program area the County owns, operates, and maintains many buildings and facilities. [Figure 3-2](#) shows the County facilities within the permit area. [Figure 3-2](#) also lists the department that operates the facility and the department responsible for implementing any capital improvements to the facility, since in many cases these are two different departments.

Figure 3-2 Placer County Facilities

			Capital Improvement Responsibility
Facility	Use	Operator	
-County Road System	Public Roadways	Public Works	Public Works
Parks			
-Applegate Park	Public Recreation	Facility Services	Facility Services
-Bear River Campground	Public Recreation	Facility Services	Facility Services
-Douglas Ranch Park	Public Recreation	Facility Services	Facility Services
-Foresthill Memorial Park	Public Recreation	Facility Services	Facility Services
-Griffith Quarry Park	Public Recreation	Facility Services	Facility Services
-Loomis Basin Community Park	Public Recreation	Facility Services	Facility Services
-Meadow Vista Trail Staging Area	Public Recreation	Facility Services	Facility Services
-Miners Ravine Nature Reserve	Public Recreation	Facility Services	Facility Services
-North Park	Public Recreation	Facility Services	Facility Services
-Treelake Park	Public Recreation	Facility Services	Facility Services
-Treelake Terrace Park	Public Recreation	Facility Services	Facility Services
-Stewart Community Hall, Sheridan	Public Recreation	Facility Services	Facility Services
-Sheridan Park	Public Recreation	Facility Services	Facility Services
-Spring Meadows Park	Public Recreation	Facility Services	Facility Services
-Sabre City Park	Public Recreation	Facility Services	Facility Services
-Sterling Pointe Equestrian Area	Public Recreation	Facility Services	Facility Services
-Sterling Pointe Park	Public Recreation	Facility Services	Facility Services
-Traylor Ranch Nature Reserve	Public Recreation	Facility Services	Facility Services
Buildings and Complexes			
-DeWitt Center, Auburn	County Buildings	Facility Services	Facility Services
-Fulweiler Center, Auburn	County Buildings	Facility Services	Facility Services
Road Yards			
-Lincoln Yard	Road Maintenance	Public Works	Facility Services
-Roseville Yard	Facility Closed	NA	Facility Services
-Colfax Yard	Road Maintenance	Public Works	Facility Services
-Foresthill Yard	Road Maintenance	Public Works	Facility Services
-Auburn (DeWitt) Yard	Road Maintenance	Public Works	Facility Services
-B Avenue (Auburn) Yard	Materials Storage	Public Works	Facility Services
-Fleet Maintenance Auburn Shop	Vehicle Maintenance	Public Works	Facility Services

Within the program area there are approximately 600 miles of maintained public roadways, six road maintenance facilities, one fleet maintenance facility, 18 parks, and numerous buildings.

Program Elements

Prior to the small municipal Phase II stormwater program, many existing County practices were already geared towards reducing pollution in stormwater runoff. For example, the County regularly participates in the various watershed groups such as the Auburn Ravine/Coon Creek CRMP (Coordinated Resource Management and Planning), and the American River Watershed CRMP, and the Dry Creek CRMP, and has been instrumental in obtaining a number of grants and performing restoration projects. The County's General Plan and Community Plans contain watershed protection policies and guidance, as does the County's Grading and Erosion Prevention Ordinance. These regulations are enforced in any of several ways, including applying environmental mitigation to project design, applying conditions of approval to use permits, through grading permit requirements, or through code enforcement action by the Planning Department or the Environmental Health Division of the Department of Health and Human Services. Environmental Health inspects restaurants throughout the County, including within the cities, and administers the hazardous materials inspection program that ensures proper handling and storage of hazardous materials in regulated facilities. The County Office of Emergency Services administers the hazardous materials response program to prevent spill materials from affecting waterways. To reduce the amount of pollutants in runoff, County crews from several departments regularly perform maintenance and cleaning on roadways, ditches, culvers, grounds, parks, and, channels. These practices are described and recognized in appropriate locations below.

Element 1. Public Education and Outreach on Stormwater Impacts

1-1 Develop and Distribute Materials to Increase Public Awareness

Under element 1-1 Placer County will create and distribute general public information brochures for increasing public awareness about stormwater impacts of everyday activities. The brochures will be distributed at public counters, at public events, or in mailers. The brochures will describe Placer County's stormwater program, impacts of stormwater discharges on water bodies, steps that people can take to minimize stormwater pollution, and additional sources of information so that readers can learn more. Element 1-1 will make use of existing materials from other jurisdictions, and new materials will be created.

The Department of Public Works will be responsible for this element with the assistance of the Environmental Health Division and the County Executive Office.

Year one: Gather examples of existing stormwater program materials. Evaluate and adapt these to Placer County needs. Create brochure(s). Maintain examples of other jurisdictions' materials for reference. Identify locations and methods for distribution, and distribute materials. Years two through five: Review and update existing materials. Maintain materials at distribution points, and identify new distribution points. Identify current public information needs through elements 1-2, 3-3, and 3-5 and create additional materials if warranted.

Table 1: Public Education and Outreach on Stormwater Impacts

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
Implement a public education program to distribute educational materials to the community about the impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff	1-1 Develop and distribute materials to increase public awareness.				
	1-1a Create brochure(s)	DPW	EH, CEO	March 2004 to June 2004	Create a minimum one of one general stormwater information brochure detailing impacts of stormwater discharge on water bodies and the steps the public can take to reduce pollutants in runoff.
	1-1b Distribute brochure(s)	DPW	EH, CEO	March 2004 to June 2004	Distribute a minimum of 100 brochures at each of five locations.
	1-1c Update brochures yearly based upon feedback from elements 1-2, 3-3, and 3-5	DPW	EH, CEO	September 2004 and ongoing	Update brochure(s) yearly.
	1-1d Distribute revised brochures yearly	DPW	EH, CEO	September 2004 and ongoing	Distribute a minimum of 100 brochures at a minimum of seven locations (5 existing plus two new additional locations) yearly.
	1-2 Assess, Prioritize, and Provide Outreach to Target Sources of Pollution				
	1-2a Develop database of businesses and residential targets	DPW	CEO, P	September 2004 and ongoing	Complete database of restaurants, gas stations, automotive businesses, landscaping businesses, and target residential sources for Placer County.

PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
	1-2b Prioritize database	DPW	CEO, P	September 2004 and ongoing	Define highest priority audience for targeted educational outreach.
	1-2c Create and deliver outreach materials for priority target	DPW	CEO, P	September 2004 and ongoing	Create and deliver one mailing, newspaper article, flyers, or workshop to highest priority audience.
	1-2d Deliver materials to next highest priority audiences	DPW	CEO, P	July 2004 to July 2005	Create and deliver mailings, newspaper articles, flyers, or workshops to top 5 priority audiences.
	1-2e Update data base and priorities and deliver targeted materials annually	DPW	CEO, P	July 2005 and ongoing	Update database and priority list annually. Create and deliver mailings, articles, flyers, or workshops to top 5 priority audiences annually.
	1-3 Submit Materials to Local Media				
	1-3a Initiate local media program	DPW	CEO, EH, FCD	August 2003-June 2004	Submit a minimum of two articles to local media.
	1-3b Sustain ongoing local media program	DPW	CEO, EH, FCD	July 2004 and ongoing	Submit media articles to reach a minimum of 15,000 persons annually
	1-4 Create and Maintain Website				
	1-4a Initiate stormwater website page	CEO	DPW, EH	October 2003	Create stormwater webpage.
	1-4b Update website	CEO	DPW, EH	October 2004 and ongoing	Update website at least twice annually. Monitor and report number of website visitors.
	1-5 Additional Public Education Activities	DPW	CEO, EH, P, FCD	September 2004 and ongoing	Execute a minimum of one additional public education activity yearly.

<u>Department</u>	<u>Symbol</u>	<u>Responsible Contact</u>	<u>Telephone</u>
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

Measurable goals: Year one, create at least one brochure and distribute at least 100 brochures at each of five locations. Years two through five: Maintain at least one brochure at five distribution points for general education purposes. Identify and distribute materials to at least two new locations yearly. Review and update yearly. Create additional materials if warranted by assessment and prioritization done through elements 1-2, 3-3, and 3-5.

1-2 Assess, Prioritize, and Outreach to Target Sources of Pollution

The goal of 1-2 is to identify, prioritize, and perform outreach to targeted businesses and groups of residents that are most likely to contribute to stormwater pollution. Targeted residential activities include landscaping, home auto repair, pool water disposal, and car washing. Commercial targets will include restaurants and fast food chains, gas stations, auto repair and dealerships, mobile cleaning services, and commercial landscaping. Outreach activities will include mailings, newspaper articles, flyers distributed with home sales or via the master gardener's program, and workshops. The outreach materials will describe typical ways that these activities can create stormwater pollution, the hazards associated with illegal discharges and improper disposal of wastes, and ways that stormwater pollution can be minimized. Priorities for this element 1-2 will come from input from the Citizen's Advisory Committee, the Illicit discharge detection and elimination, construction, and post-construction elements.

The Department of Public Works will be responsible for this element with the assistance of the County Executive Office and Planning Department.

Year one: Develop database of target residential and business activities. Identify community needs and prioritize activities. Create business or audience-specific outreach materials, and deliver to highest priority audience.

Years two through five: Maintain database of businesses and others as targets for outreach activities. Evaluate and update database annually. Prepare business or audience-specific materials for outreach, and deliver via mailings, newspaper articles, flyers, and/or workshops to top five priority audiences yearly.

Measurable goals: Year one: Create database of target businesses and other groups, and prioritize. Deliver one mailing, newspaper article, flyer, or workshop to highest priority audience. Years two through five: Update database of target audiences and businesses and prioritize list annually. Deliver outreach message to top five priority audiences annually.

1-3 Submit Materials to Local Media

Under element 1-3 Placer County will supplement the general and targeted outreach campaigns (elements 1-1 and 1-2) with a local media campaign of information about Placer County's stormwater program activities and general stormwater pollution impacts, including impacts of illegal discharges and

improper disposal of wastes. The target audience for this element will be the public in general. Media resources will be submitted to local or regional newspapers and radio stations for use.

The Department of Public Works will be responsible for this element with the assistance of the County Executive Office Public Information Officer, Environmental Health Division, and Flood Control District.

Year one: Identify local and regional radio stations and periodicals to publicize stormwater materials. Write and submit articles or radio spots.

Measurable goal year one: Create and publish a minimum of two media pieces. Years two through five: Create and submit radio, newspaper, or other media resource pieces to reach a minimum of 15,000 media impressions per year.

1-4 Create and Maintain Website

Placer County currently supports a website at www.placer.ca.gov that can serve as access for a web page to provide viewers with stormwater information, and to relay public inquiries and reports to the appropriate contact (see illicit discharge detection and elimination).

The County Executive Office Public Information Officer will be responsible for this element with the assistance of the Department of Public Works and Environmental Health Division.

Year one: Create a stormwater web page that can be accessed within the Placer County website. The stormwater web page will contain information about the program in general, upcoming program events and developments, information about how the readers can reduce stormwater impacts, a way to refer inquiries and reports of illicit discharges to the appropriate contact person, and links to related websites.

Measurable goals: year one: create and maintain a web page to inform visitors about the program and developments, how to reduce stormwater impacts, and to provide related links. Create link for referring public inquiries and reports to stormwater coordinator position. Years two through five, update web page at least twice a year. Monitor number of visitors to website and report in annual report.

1-5 Additional Public Education Activities

This element is provided to allow Placer County to take advantage of additional public education opportunities when they arise. New opportunities will be developed through the Placer Regional Stormwater Coordination Group, in conjunction with public schools, or by County staff.

The Department of Public Works will be responsible for this element with the assistance of the County Executive Office, Environmental Health Division, Planning Department, and Flood Control District.

Year one: No activity planned.

Years two through five: Monitor opportunities and present additional public education activities.

Measurable goals, years two through five: Identify and execute a minimum of one additional public education activity yearly in addition to those in elements 1-1 through 1-4.

Element 2. Public Involvement/Participation

2-1 Develop Citizen's Advisory Committee

Under this item, a Citizen's Advisory Committee (CAC) will be formed to gather public input during the initial stages of the program, and with administration of the program in subsequent years. The CAC will be especially active during 2003/04 in the first year of the program. The CAC will be asked to make recommendations on policy issues, program priorities, and funding sources during the first program year. Thereafter, the CAC will act as an advisory group to provide feedback on the program (element 2-2).

The County Executive Office will be responsible for formation of the CAC, with the assistance of the Department of Public Works, and Environmental Health Division.

Year one: Formulate structure of CAC, solicit volunteers, define purpose, and establish regular meetings.

Years two through five: See element 2-2

Measurable goals: Establish CAC during year one. Meet at least four times until such time as the year one CAC goals are defined and met. Record and keep minutes of the CAC meetings for the yearly report to the Regional Board.

2-2 Meet and Follow up with CAC

This item is a follow up to 2-1 to continue the CAC as a tool to provide citizen feedback as the program progresses.

The County Executive Office will be responsible for follow up with the CAC, with the assistance of the Department of Public Works, and Environmental Health Division.

Year one: Meet and follow up with CAC as established in element 2-1.

Table 2: Public Involvement / Participation

PUBLIC INVOLVEMENT / PARTICIPATION					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
At a minimum, comply with State and local public notice requirements when implementing a public involvement / participation program	2-1 Develop Citizen's Advisory Committee	CEO	DPW, EH	June 2003 to June 2004	Establish Citizen's Advisory Committee and meet at least four times.
	2-2 Meet and Follow up with Citizen's Advisory Committee	CEO	DPW, EH	August 2004 and ongoing	Meet yearly with Citizen's Advisory Committee.
	2-3 Develop and Implement Storm Drain Stenciling Program	DPW	CEO, FS, CAC, FCD	March 2004 and ongoing	Stencil a minimum of 80 stormdrain inlets annually.
	2-4 Additional Public Participation Activities	DPW	CEO, EH, FCD	September 2004 and ongoing	Execute a minimum of one additional public involvement activity yearly.
	2-5 Present Annual Report to Board of Supervisors	DPW	CEO	September 2004, and each September thereafter	Present annual report to Board of Supervisors, including public notification of the meeting.

<u>Department</u>	<u>Symbol</u>	<u>Responsible Contact</u>	<u>Telephone</u>
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

Years two through five: Continue meetings of the CAC as established initially, potentially with reduced schedule as determined by the CAC membership.

Measurable goals: The CAC will be established during year one 2003/04 as element 2-1. Meet at least once per year, or alternative schedule as determined by the CAC, to provide guidance on program development. Record and keep minutes of the CAC meetings for annual report.

2-3 Develop and Implement Storm Drain Stenciling Program

A storm drain stenciling program will involve citizens in the program and provide a common visible message to the public that discarding waste into storm drains pollutes streams. Current development practices already require marking of inlets, however the requirement will be formally added to County processes with element 5-2, and older inlets may not have been marked.

The Department of Public Works will be responsible for this item, with the assistance of the County Executive Office, Facility Services Department, the CAC, and Flood Control District.

Year one: Collect examples and decide wording of the message to be stenciled. Solicit input from other jurisdictions regarding most efficient way to structure program. Estimate number of storm drain inlets within the County that have never been stenciled. Establish territories and priority system for performing stenciling. Purchase materials, solicit volunteers, organize, and stencil a minimum of 80 unstenciled storm drain inlets.

Years two through five: Stencil a minimum of 80 unstenciled storm drain inlets yearly. Assess need for restenciling inlets periodically, and add those requiring restenciling to the count.

Measurable goals: Years one through five: Stencil a minimum of 80 inlets annually.

2-4 Additional Public Participation Activities

Under element 2-4, Placer County will take advantage of additional public participation opportunities, such as working with the municipal advisory councils (the regional citizens advisory committees) and regionally shared activities through the Placer Regional Stormwater Coordination Group.

The Department of Public Works will be responsible for this element with the assistance of the County Executive Office, Environmental Health Division, and Flood Control District.

Year one: No activity proposed.

Years two through five: Monitor and make use of public participation opportunities.

Measurable goals, years two through five: Identify and execute a minimum of one additional public participation activity yearly.

2-5 Present Annual Report to Board of Supervisors

This element will require the annual presentation and certification of annual report by the Board of Supervisors. All Board of Supervisors meetings are publicly noticed and open to the public, and will therefore serve as an additional method of keeping the public informed of program activities.

The Department of Public Works will be responsible for this element, with the assistance of the County Executive Office.

Year one: No activity proposed

Years two and beyond: Prepare and present annual report to the Board of Supervisors as a means of providing public exposure and input, and to obtain the signature of the Chairman of the Board prior to submission of the report to the State.

Measurable goals: years two and beyond: present annual report at the Board of Supervisors meeting, including public notification of the meeting.

Element 3. Illicit Discharge Detection and Elimination

3-1 Storm Drain Outfall Mapping

Placer County will locate and map all storm drain outlets and their receiving waters in the area subject to Phase II. The County currently does not have comprehensive maps of either its existing storm drain conduit or roadside ditch drainage systems, and this information, including base maps, will need to be developed from scratch.

Table 3: Illicit Discharge Detection and Elimination

ILLICIT DISCHARGE DETECTION AND ELIMINATION					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
Develop a storm sewer system map showing the location of all outfalls and the names and locations of all receiving waters.	3-1 Storm Drain Outfall Mapping				
	3-1a Develop base maps and prepare database of existing information	DPW	FS	December 2003 to June 2004	Develop base maps and prepare database of existing stormdrain outfall information
	3-1b Complete stormdrain outfall mapping	DPW	FS	July 2004 to June 2005	Complete mapping of all stormdrain outfalls.
	3-1c Update stormdrain maps annually	DPW	FS	June 2006 and annually in thereafter in June	Update stormdrain maps annually. Report newly constructed outfalls and receiving waters in annual report.
Effectively prohibit through ordinance, or other means, non-stormwater discharges into the MS4 and implement appropriate enforcement procedures and actions	3-2 Effectively prohibit non-stormwater discharges and implement enforcement procedures and actions.				
	3-2a Draft ordinance	DPW	CC, CEO, B, P, EH	November 2003 to June 2004	Draft stormwater ordinance
	3-2b Enact ordinance	DPW	CC, CEO, B, P, EH	July 2004 to June 2005	Enact stormwater ordinance
	3-2c Implement enforcement procedures and actions	DPW	CC, CEO, B, P, EH	July 2005 and ongoing	Implement enforcement procedures and actions. Track and report number of possible illicit discharges identified, action taken, and resolution. Respond to 100% of reports per established procedure.
Develop and implement a plan to detect non-stormwater discharges, illegal dumping	3-2d Develop non-stormwater discharge and illegal dumping detection plan	DPW	B, P, EH, FS	February 2004 to June 2004	Complete non-stormwater discharge and illegal dumping detection plan
	3-4 a Compose illicit discharge elimination procedures.	DPW	B, P, EH, FS	August 2003 to June 2004	Compose illicit discharge elimination actions and procedures

ILLCIT DISCHARGE DETECTION AND ELIMINATION					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
	3-4 Perform illicit discharge inspections	DPW	B, P, EH, FS	July 2004 and ongoing	Perform illicit discharge site inspections, including reports of illegal dumping. Respond to 100 percent of reports of possible ordinance violations according to established procedures. Track number of illicit discharge inspections, reports of possible discharges and dumping, and report in annual report.
	3-6 Establish hotline for public inquiries and reports	DPW	S, CEO	July 2005 and ongoing	Respond to 100% of inquiries and reports of potential violations per procedures
Develop and implement plan to address non-stormwater discharges, illegal dumping	3-2c Implement enforcement procedures and actions	DPW	CC, CEO, B, P, EH	July 2005 and ongoing	Implement enforcement procedures and actions. Track and report number of possible illicit discharges identified, action taken, and resolution. Respond to 100% of reports per established procedure.
	3-3 Assess Illicit Discharge Priorities	DPW	EH, B, P, CEO	July 2005 and ongoing	Create list of top five illicit discharge priorities and report in annual report.
	3-5 Hazardous materials response	OES	EH, DPW	October 2004 and ongoing	Respond to 100% of hazardous materials response events in accordance with stormwater quality practices. Monitor number location, frequency, and type of events, and report with annual report.
	3-8 Household hazardous materials collection	FS	DPW	August 2003 and ongoing	Operate household hazardous waste collection events Saturdays at the western Placer Material Recovery Facility. Hold an additional remote collection event in Auburn annually.

ILLCIT DISCHARGE DETECTION AND ELIMINATION					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
					Promote and advertise collection services through quarterly newsletters, flyers at retail outlets and public events, and on the Placer County and Western Placer Waste Management Authority websites.
Inform public employees, business and the general public of the hazards that are associated with illegal discharges and improper disposal of waste	See descriptions of elements 1-1a, b, c, d 1-2a, b, c, d, e 1-3a, b 1-4a, b 1-5 4-2c 6-5a, b				
	3-7 Development community outreach	DPW	FS, B, P, CEO	August 2003 and ongoing.	Participate in one development community workshop yearly. Distribute a minimum of 200 information brochures yearly.

<u>Department</u>	<u>Symbol</u>	<u>Responsible Contact</u>	<u>Telephone</u>
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

The Department of Public Works GIS staff will be responsible for this element, with the assistance of the Facility Services Department.

Year one: Staff will gather information from various sources including existing reports, record improvement plans, GPS locations, etc. regarding locations of stormdrain outfalls and their receiving waters. Base maps will be developed. In year two, staff will complete the mapping of storm drain outfalls and their receiving waters in the Phase II program area. In subsequent years, these maps will be updated as new outlets are constructed. Newly constructed outfalls and their receiving waters will be reported in the annual report.

Measurable goals: Year one: Develop base maps, and prepare database of existing information. Year two: Complete mapping. Year three through five: update maps yearly and report newly constructed outfalls and their receiving waters in the annual report.

3-2 Effectively Prohibit Non-stormwater Discharges and Implement Enforcement Procedures and Actions.

Placer County will effectively prohibit, through ordinance or other regulatory mechanism, non stormwater discharges, and will implement appropriate enforcement procedures and actions. The new regulatory mechanism will include controls of non-sediment construction site wastes. Under element 6-5, County Road maintenance crews be trained to identify and report illegal dumping and to clean up materials dumped within the County right-of-way.

The Department of Public Works will be responsible for this element with the assistance of County Counsel, the CEO's office, Building Department, Planning Department, and Environmental Health Division.

Illicit discharge detection processes are described in element 3-4. Illicit discharge inspections will be tracked and reported in the annual report. Inspections that identify threatened or actual illicit discharges will be written up on a report form and forwarded to the stormwater coordinator in Public Works for action according to the enforcement procedures in the stormwater ordinance. Reports of illicit discharges or cross connections will be investigated under the direction of the Public Works stormwater coordinator, with the assistance of the personnel initially identifying the issue. Depending upon the severity of pollution, or potential pollution, and the history of the situation, the property owner or tenant will be issued:

- a notice of correction
- stop work order
- notice of violation

The stormwater ordinance will contain administrative, civil, and criminal penalties in addition to due process and appeal rights for individuals receiving a notice of violation.

Year one: Gather examples of other jurisdictions' ordinances and regulatory mechanisms. Meet with affected Placer County departments to develop enforcement procedures and actions. Affected departments will be regularly convened in a task-force environment to draft the ordinance or other regulatory mechanism and the CAC will be consulted regularly. Evaluate and adapt example ordinances and other regulatory mechanisms to Placer County needs. Submit proposed ordinance or other regulatory mechanism to Department of Public Works, County Counsel, CEO, and other affected departments for internal review. Develop illicit discharge detection and elimination processes.

Year two: After internal review of the draft ordinance or other regulatory mechanism is completed in year one, publicize by presenting to affected groups such as engineers, contractors, and businesses to gather feedback on significant issues. Any issues will be resolved to the extent possible, and the ordinance or other regulatory mechanism will then be prepared for enactment by the Board of Supervisors or other applicable approval body. The Board of Supervisors will enact the authority to effectively prohibit non-stormwater discharges and implement appropriate enforcement procedures and actions. Begin implementation of illicit discharge detection and elimination processes.

Year three and beyond: According to the procedures and actions determined in year one, completely implement the illicit discharge detection and elimination program.

Measurable goals: Year one, draft ordinance and/or other regulatory mechanism and review internally by staff. Develop illicit discharge detection and elimination procedures. Year two, enact ordinance or other regulatory mechanism. Track illicit discharge inspections and number of possible discharges, and report in annual report. Year three, completely implement the enforcement program and respond to 100 percent of reports of possible violations according to established procedures.

3-3 Assess Illicit Discharge Priorities

Illicit discharge detection enforcement priorities will need to be established to allocate resources towards detection activities and select those that are likely to have the most benefit to improving water quality. Additionally, this periodic assessment will provide feedback beneficial to deciding content of training sessions (element 6-5), development community outreach (element 3-7), and public outreach materials (elements 1-1 and 1-2).

The Department of Public Works will be responsible for this element, with the assistance of the Environmental Health Division, Building Department, Planning Department, and CEO's office.

Years one and two: no activity planned as authority and enforcement procedures are established in connection with the draft ordinance or other regulatory mechanism (element 3-2).

Years three through five: Identify potential water quality problems using citizen complaints from the hotline (element 3-6), inquiries from the website (element 1-4), site inspections (element 3-4), written complaints, direct telephone inquiries to Public Works staff, and review of sources identified otherwise such as through elements 1-2, 2-1, and 3-5. Assess data for patterns of inquiry or misuse to identify detection and education priorities for subsequent years.

Measurable goals: years three through five: at the end of each program year as part of the annual report, create a list of top five illicit discharge detection priorities for subsequent years, and report in annual report.

3-4 Perform Illicit Discharge Inspections

Illicit discharge inspectors will be designated from personnel in five departments to identify active or threatened non-stormwater discharges and illicit connections. These personnel will be trained in stormwater practices, to identify illicit connections and actual/threatened discharges, and in reporting and enforcement processes. The Department of Public Works will be responsible for this element; inspections will be performed by personnel in Building, Planning, Public Works, Environmental Health, and Facility Services departments.

Building. Building inspectors will inspect new and remodel construction to identify any cross connections or situations that may result in non-stormwater discharges to the storm drain system. (this is in addition to inspection of construction BMPs for building permits where greater than one acre is disturbed, see separate construction inspection procedures write-up for these particulars)

Planning. Code enforcement inspectors will inspect code violation sites for cross connections or situations that may result in non-stormwater discharges to the storm drain system.

Public Works. The public works stormwater coordinator will inspect sites identified by reports from the sheriff department's hotline, internet/email, front counter, written complaints, or otherwise from the public. Public Works construction inspectors will assess construction sites for potential illicit discharges in addition to inspection of construction BMPs. County Road Maintenance personnel will be responsible for clean-up of materials illegally dumped within the right-of-way limits of publicly maintained roads, and for reporting to the stormwater coordinator any illegal dumping of materials on private properties observable from the roadway.

Environmental Health. Environmental Health inspectors will review sites for stormwater compliance in the course of inspections for restaurants, water well drilling, septic systems, and hazardous materials business plans. If inspections

in another jurisdiction (such as restaurant inspections within a city) identify cross connections or actual or threatened illicit discharges, the information will be forwarded to the jurisdiction for resolution.

Facility Services. Facility Services Special Districts staff will be trained to identify and report non-stormwater discharges to the storm drain system. Inspections of sanitary sewer connections for new and remodel construction are performed routinely by the Special Districts Division; staff will address any potential cross connection issues with storm drain systems. Facility Services Solid Waste Division staff will be trained to report any illegal dumping or potential illicit discharge situations that are observed or reported in the normal course of their duties.

All inspections will be conducted in compliance with the requirements of the State general permit for stormwater quality improvement for small municipalities.

The Department of Public Works and Department of Facility Services will be responsible for this element, and will be assisted by the Planning and Building Departments, and Environmental Health Division.

Year one: In conjunction with element 3-2 compose enforcement actions and procedures. Translate procedures into the draft ordinance or other regulatory mechanism. Continue inspection and enforcement for stormwater protection per current procedures described in element 4-1.

Year two and beyond: Implement new illicit discharge detection and elimination processes.

Measurable goals: Year one: Complete composition of enforcement actions and procedures. Years two through five: Perform illicit discharge site inspections, including reports of illegal dumping. Respond to 100 percent of reports of possible ordinance violations according to established procedures. Track number of illicit discharge inspections, reports of possible discharges and dumping, and report in annual report.

3-5 Hazardous Materials Response

The stormwater quality program will be coordinated with the existing hazardous materials response program to assure that response and cleanup activities meet the requirements of the State general permit. Under current processes, when a spill occurs the Office of Emergency Services coordinates cleanup efforts by Sheriff, Fire Departments/Protection Districts, Environmental Health, Public Works road crews and cities to make certain that the clean up is performed in a safe manner in accordance with State and local laws.

The Office of Emergency Services will be responsible for coordination of this element with the assistance of the Department of Public Works and Environmental Health Division.

Year one: Meet with the Office of Emergency Services to develop and implement strategies for incorporating stormwater quality improvement practices into the hazardous materials response program.

Years two through five: Review practices yearly with the Office of Emergency Services. Monitor location, frequency, and type of events and analyze for education (element 1-1, 3-7, or 6-5) and enforcement needs.

Measurable goals: Year one: Incorporate stormwater quality improvement practices with the County's hazardous materials response program. Years two through five: respond to 100% of hazardous materials response events in accordance with stormwater quality practices. Monitor number location, frequency, and type of events, and report with annual report.

3-6 Establish Hotline for Public Inquiries and Reports

The Placer County Sheriff's Department administers a citizen hotline for reporting non-emergency events. This hotline will be expanded to allow citizens to report suspected illicit connections/discharges to stormwater, and to relay citizen inquiries about stormwater issues. All hotline inquiries will be relayed to the stormwater coordinator in the Department of Public Works, who will be responsible for assuring that the report is handled appropriately. Construction-related events will be relayed to the inspector (elements 4-1 and 4-2) and suspected illicit discharges will be relayed to the departmental representative (element 3-4).

Placer County Department of Public Works will be responsible for this element, with the assistance of the Sheriff's Department and the Office of the County Executive Office Public Information Officer.

Year one: No activity planned. Year two: Meet and coordinate with the Sheriff's Department to add stormwater to the hotline's reportable activities. Years two through five: Respond to all reported events or inquiries fielded through the hotline per the established procedures.

Measurable goals: Year two: Establish hotline to allow citizen inquiries and stormwater reports. Years two through five: Respond to 100% of inquiries and reports of potential violations per procedures.

3-7 Development Community Outreach

The Construction Site Runoff Control MCM and the Post-construction Stormwater Management MCM are targeted in part at the development community. Education and outreach is required to assure that the community is informed about the NPDES stormwater program and knows how to design and construct projects to protect water quality. Elements 4-1, 5-2, and 5-3 necessitate outreach to the development community to present and resolve issues about the pending changes. Additionally, if MCM 3, Illicit Discharge

Detection and Elimination, activities identify educational needs then these will be added to the development community outreach topics. Outreach will also include the creation and distribution of educational materials in conjunction with the Public Education and Outreach MCM, and sponsoring workshops targeted at the development community. Outreach topics will include:

- regulatory requirements,
- selection, design, and application of construction BMPs
- selection, design, and application of post-construction BMPs
- Placer County processes and/or proposed changes to ordinances and processes
- general stormwater quality improvement practices
- specific instruction about any particular problems identified in Placer County.

The Department of Public Works will be responsible for this element with the assistance of the Department of Facility Services, Building Department, Planning Department, and County Executive Office.

Years one and two: In conjunction with element 5-2, publicize program requirements to development community as part of ordinance or other document revision. Reevaluate outreach priorities yearly. Develop outreach materials and sponsor at least one workshop yearly.

Measurable goals: Participate in one development community workshop yearly. Distribute a minimum of 200 brochures yearly.

3-8 Household Hazardous Materials Collection

Under element 3-8, the County will operate hazardous materials collection events in order to reduce amount of hazardous materials that might be introduced into the storm drain system.

The Department of Facility Services will be responsible for this element, with the assistance of the Department of Public Works.

The County will provide convenient no-cost collection of household hazardous waste to residents, and low-cost small quantity generator collection of household hazardous waste to small businesses by operating and maintaining household hazardous waste collection facilities at the Western and Eastern Regional Material Recovery Facilities.

Measurable goals: Operate household hazardous waste collection events Saturdays at the western Placer Material Recovery Facility. Hold an additional remote collection event in Auburn annually. Promote and advertise collection services through quarterly newsletters, flyers at retail outlets and public events, and on the Placer County and Western Placer Waste Management Authority websites.

Element 4. Construction Site Stormwater Runoff Control

Placer County currently has established procedures for applying and enforcing construction site pollution control measures, including site plan reviews, requiring erosion and sediment control BMPs, inspections, and enforcement of violations. These occur per the County's Grading and Erosion Prevention Ordinance (appendix 2), the County Land Development Manual, and environmental review processes.

The County's Grading and Erosion Prevention Ordinance states:

- The purpose of the ordinance (section 29.110) is "This ordinance is enacted for the purpose of regulating grading...to avoid pollution of watercourses..."
- The ordinance states "Grading plans shall be designed with long-term erosion and sediment control as a primary consideration." (29.670)
- A detailed erosion and sediment control plan for both temporary (construction) and permanent (post-construction) BMPs is required (29.420 (a)(16))
- A revegetation plan is required (29.420 (a)(17))
- The ordinance requires control of discharge of sediment and hazardous material from the site (29.595 (d) and (e))
- The ordinance provides for multiple specific controls upon the timing and methods of grading via the erosion and sediment control plan (29.670 and 29.680).
- The ordinance provides for inspection of grading (29.590 (c)), for requiring security (29.700), and for enforcement of violations (29.800 et al.)

Section 17.01 of the Placer County Land Development Manual requires that "Projects within Placer County shall be designed utilizing Best Management practices (BMPs) for reducing pollutants in storm water discharges. Both source control BMPs and treatment control BMPs shall be incorporated into the project designs." Section 17.01 further directly requires compliance with NPDES requirements, and that BMPs be included on improvement plans.

Stormwater pollution prevention mitigation measures are applied to all private and publicly funded construction projects for grading and erosion impacts per the County's Environmental Review Ordinance, with technical and BMP requirements in accordance with the County's Grading and Erosion Prevention Ordinance. Environmental mitigation measures for erosion and sedimentation prevention are applied to a project through improvement plan check and are enforced during project inspection as part of the approved improvement plans.

Table 4: Construction Site Stormwater Runoff Control

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
Develop ordinance to require erosion and sediment controls, include enforcement					
	3-2a Draft ordinance	DPW	CC, CEO, B, P, EH	November 2003 to June 2004	Draft stormwater ordinance
	3-2b Enact ordinance	DPW	CC, CEO, B, P, EH	July 2004 to June 2005	Enact stormwater ordinance
Develop requirements for construction site operators to implement appropriate erosion and sediment control BMPs					
	4-1 Revise construction policy documents	DPW	FS, CC, EH, B, P	October 2003 to June 2004	Revise Grading and Environmental Ordinance, Land Development Manual, and construction standards to be consistent with State general permit if needed.
Develop requirements for construction site operators to control non-sediment waste discharges from construction sites					
	3-2a Draft ordinance	DPW	CC, CEO, B, P, EH	November 2003 to June 2004	Draft stormwater ordinance
	3-2b Enact ordinance	DPW	CC, CEO, B, P, EH	July 2004 to June 2005	Enact stormwater ordinance
Develop procedures for site plan review which incorporate consideration of water quality impacts					
	4-1 Revise construction documents	DPW	FS, CC, EH, B, P	October 2003 to June 2004	Revise Grading and Environmental Ordinances, Land Development Manual, and construction standards to be consistent with State general permit if needed.
Implement procedures for site plan review which incorporate consideration of water quality impacts					

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
	4-2a Determine necessary changes to construction processes	DPW	FS, CC, EH, B, P	October 2003 to March 2004	Determine necessary changes to construction processes and create information sheet.
	4-2b Implement new construction processes	DPW	FS, CC, EH, B, P	September 2004 and ongoing	Implement changes to plan review and inspection processes and inspect 100% of projects according to procedures.
	4-2c Distribute information sheet	DPW	FS, CC, EH, B, P	July 2004 and ongoing	Distribute information sheet to all project applicants.
	4-2d Require SWPPP and WDID	DPW	FS, CC, EH, B, P	September 2004 and ongoing	Require SWPPP and construction permit WDID from all projects disturbing one acre or more, prior to County project approval
Develop procedures for inspection and enforcement of control measures					
	4-2a Determine necessary changes to construction processes	DPW	FS, CC, EH, B, P	October 2003 to 2004	Determine necessary changes to construction processes and create information sheet.
	4-2b Implement new construction processes	DPW	FS, CC, EH, B, P	September 2004 and ongoing	Implement changes to plan review and inspection processes and inspect 100% of projects according to procedures.
Develop procedures for receipt and consideration of information submitted by the public	See descriptions of elements 3-2c, 3-2d, 3-6, 1-4, 2-1, and 2-2.				

<u>Department</u>	<u>Symbol</u>	<u>Responsible Contact</u>	<u>Telephone</u>
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

4-1 Revise Construction Policy Documents

Under element 4-1, the current grading and erosion control, environmental mitigation, and project construction and inspection guidance documents will be revised to assure compliance with the requirements of the State general permit. The Grading and Erosion Prevention Ordinance, Environmental Review Ordinance, Land Development Manual, existing construction standards, and related documents will be evaluated for the need for changes to be consistent with the State general permit.

The Department of Public Works will be responsible for this element, with the assistance of the Department of Facility Services, County Counsel, Environmental Health Division, and Building and Planning Departments.

Year one: Gather and review all County's technical guidance documents germane to stormwater protection. Compare documents to State general permit for consistency, and identify any changes needed to either processes or documents. Revise documents to be consistent.

Measurable goals: Year one: Revise Grading and Erosion Prevention Ordinance, Environmental Review Ordinance, Land Development Manual, existing construction standards to be consistent with State general permit if needed.

4-2 Revise Construction Processes

Under element 4-2, the project construction and inspection processes will be revised to incorporate the additional stormwater pollution prevention requirements of the State general permit.

The Department of Public Works will be responsible for this element, with the assistance of the Department of Facility Services, County Counsel, Environmental Health Division, and Building and Planning Departments.

Stormwater inspectors will be assigned to various types of construction projects that disturb one acre or more:

- Public Works construction inspectors will inspect privately funded development and County public works infrastructure projects
- Building inspectors will inspect sites subject to building permits
- Facility Services department inspectors will inspect County building and recreational infrastructure projects.
- Where contract inspectors are used for County projects, the implementing department will be responsible for including stormwater inspection requirements in the contract documents.

Private project development applicants will be required to provide a copy of the SWPPP and WDID number prior to issuance of a grading permit, improvement plans, or building permit where one acre or more of area will be disturbed.

The Department of Public Works will create an information sheet to describing these processes, to be distributed at public counters and at developer and county employee training sessions.

Year one: Evaluate changes to be made in response to the State general permit, and create new inspection processes. Create information sheet describing new processes.

Years two through five: Implement process changes. Distribute information sheet to project applicants. Require copy of SWPPP and WDID number for all projects disturbing one acre or more.

Measurable goals: Year one: Determine necessary changes to plan review and inspection processes. Create information sheet. Years two through five: Implement changes to plan review and inspection processes and inspect 100% of projects according to procedures. Distribute information sheet to all project applicants. Require project applicants to provide SWPPP and WDID number for all projects disturbing one acre or more prior to issuance of project approvals.

Element 5. Post-Construction Stormwater Management

5-1 Revise Post-Construction Policies and Process

Under element 5-1, the County policies and processes as applied to post construction BMPs will be revised to incorporate the additional stormwater pollution prevention requirements of the State general permit.

The Department of Public Works and Planning Departments will be responsible for this element, with the assistance of the Department of Facility Services, County Counsel, Environmental Health Division, and Building Departments.

Placer County currently has established procedures for applying and enforcing post-construction stormwater pollution controls, including site plan reviews, requiring post-construction (locally called 'permanent') BMPs, inspections, and enforcement of violations. These occur per the County's Grading and Erosion Prevention Ordinance (appendix 2), the County Land Development Manual, and environmental review processes. See additional discussion of current processes under element 4.

Under element 5-1, the County will determine if changes to land development processes are required to assure compliance with the State general permit, will update any documents needed to support process changes, and will implement process changes.

Table 5: Post-Construction Stormwater Management in New Development and Redevelopment

POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
Develop and implement program insuring that controls are in place to prevent or minimize water quality impacts by stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre	5-1 Revise Post Construction Policies and Processes				
	5-1a Determine changes to post construction policies and processes necessary	DPW, P	CC, EH, B, FS	June 2004	Assemble a list of changes to County processes required to comply with the post-construction controls measure.
	5-1b Update County post-construction policy documents	DPW, P	CC, EH, B, FS	June 2005	Update County documents to be consistent with revised county post-construction processes.
	5-1c Implement revised post-construction processes	DPW, P	CC, EH, B, FS	June 2006 and ongoing	Apply updated post-construction processes to all county projects disturbing one acre or more.
Develop and implement strategies which include a combination of structural and/or non-structural and/or non-structural BMPs appropriate for the community	5-2 apply post construction and attachment 4 BMPs				
	5-2a Define BMPs and attachment 4 execution	DPW, P	B, FS, EH, CC	June 2004	Define BMPs and attachment 4 execution
	5-2b Revise County standards to include post-construction BMPs	DPW, P	B, FS, EH, CC	June 2005	Revise County standards to include post-construction BMPs
	5-2c Apply attachment 4 BMPs to all County projects	DPW, P	B, FS, EH, CC	June 2006 and ongoing	Adopt and apply attachment 4 or a functional equivalent.

POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
Develop and implement and enforce an ordinance to address post-construction runoff from new development and redevelopment project					
	3-2a Draft ordinance	DPW	CC, CEO, B, P, EH	November 2003 to June 2004	Draft stormwater ordinance
	3-2b Enact ordinance	DPW	CC, CEO, B, P, EH	July 2004 to June 2005	Enact stormwater ordinance
Develop and implement program to insure long-term operation and maintenance of BMPs	5-3 Long term operation and maintenance of BMPs	DPW	FS, P, EH	June 2006 and ongoing	Apply long term operation and maintenance requirements to all new projects. Track operation and maintenance numbers and report in annual report.
Develop and implement program requiring all BMPs and design standards contained in Attachment 4					
	3-2a Draft ordinance	DPW	CC, CEO, B, P, EH	November 2003 to June 2004	Draft stormwater ordinance
	3-2b Enact ordinance	DPW	CC, CEO, B, P, EH	July 2004 to June 2005	Enact stormwater ordinance
	5-2a Define BMPs and attachment 4 execution	DPW, P	B, FS, EH, CC	June 2004	Define BMPs and attachment 4 execution
	5-2b Revise County standards to include post-construction BMPs	DPW, P	B, FS, EH, CC	June 2005	Revise County standards to include post-construction BMPs
	5-2c Apply attachment 4 BMPs to all County projects	DPW, P	B, FS, EH, P, CC	June 2006 and ongoing	Adopt and apply attachment 4 or a functional equivalent.
	5-4 Evaluate BHP Effectiveness	DPW, FS		June 2007 and ongoing	Review post-constitution BHPs at a minimum of five sites to evaluate performance, design, and maintenance. Report results in the annual report.

<u>Department</u>	<u>Symbol</u>	<u>Responsible Contact</u>	<u>Telephone</u>
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

Measurable goals: Year one: assemble a list of changes to County processes required to comply with the post-construction controls measure. Year two: Update County documents to be consistent with revised county post-construction processes. Year three: apply updated post-construction processes to all county projects disturbing one acre or more.

5-2 Apply Post-Construction and Attachment 4 BMPs

Under element 5-2, the County will determine which post-construction BMPs will be applied to County projects and how Attachment 4 to the general permit will be applied. Although the County already requires new storm drain inlets to be stenciled via a standard condition of approval, this requirement will be formalized with element 5-2.

The Department of Public Works and Planning Departments will be responsible for this element, with the assistance of the Department of Facility Services, County Counsel, Environmental Health Division, and Building Departments.

Measurable goals: Year one: define BMPs and Attachment 4 execution. Year two: revise County standards to include specific post-construction BMPs Year three through five: adopt and apply Attachment 4 or a functional equivalent.

5-3 Long-term Operation and Maintenance of BMPs

Under element 5-3, the County shall ensure long-term operation, maintenance of post-construction BMPs through multiple mechanisms.

The Department of Public Works will be responsible for this element, with the assistance of the Facility Services Department, Planning Department, and Environmental Health Division.

The County will utilize any or all of the following mechanisms to ensure long term operation and maintenance of post-construction BMPs. Selection of mechanism(s) will be based upon the type of BMP according to pollution its potential and/or impact to the County in the event of maintenance failure.

1. Stormwater Ordinance Requirement. The stormwater ordinance will contain a requirement to provide ongoing maintenance of BMPs. In the event that other maintenance mechanisms prove ineffective, or in addition to other mechanisms, the stormwater ordinance penalties could be applied to violations.
2. Emergency Abatement. Under the stormwater ordinance, failure to maintain a BMP may constitute a nuisance situation which may be abated according to processes to be defined in the ordinance.
3. Land Use Permits For those discretionary development applications where ongoing conditions of approval may be imposed, a condition will be added

which requires the landowner to maintain that facility. Failure to provide maintenance would then be addressed as a violation of the permit.

4. Subdivision Public Report. Subdivisions will be conditioned to require notification of the BMP maintenance obligation in the CC+Rs.
5. BMP Maintenance Agreement and Easement As a condition of approval of a development permit, the developer will be required to enter into an agreement with the County that contains provisions to maintain the BMPs, along with an irrevocable offer of easement dedication (IOD). For subdivisions, the IOD would be recorded on or prior to the final map. The agreement would:
 - a. Contain an agreement by the landowner to maintain the facilities
 - b. Pass on the maintenance obligation onto future purchasers or successors.
 - c. Commit the land containing the BMPs to being used only for the purposes of the BMP
 - d. Give an irrevocable offer of dedication to the County giving the right to enter onto the land in the event that BMP maintenance is assumed.
6. Submittal of Annual Property Owner Certification for BMP Maintenance. For discretionary development approvals, the property owner will be mailed a BMP maintenance certification form annually. The form would be completed by the maintenance entity and returned to the County. The County would keep records of such maintenance certification. Properties for which maintenance certification forms were not returned would be subject to field inspection by County staff, and if needed, action taken per the authority provided in the stormwater ordinance.
7. Dedication of BMP to the County The developer could be required to dedicate a completed BMP and underlying property to the County. A separate funding (such as assessment) source would need to be established before this mechanism could be used.

Years one and two: no activity planned while post-construction processes are enacted and ordinances or other regulatory mechanisms are updated.

Years three through five: After the stormwater ordinance is enacted and the development review processes are revised, apply long-term operation and maintenance requirements. Establish tracking system to ensure operation and maintenance of post-construction BMPs.

Measurable goals: years three through five: apply long-term operation and maintenance requirements to all new projects. Establish tracking system for ensuring operation and maintenance and report numbers of BMPs in annual report.

5-4 Evaluate BMP Effectiveness

The goal of this element is to periodically review the performance of post-construction BMPs installed in Placer County in order to provide feedback regarding choice of BMPs and program priorities. A relative assessment of how well the BMP is performing, including any failures and potential improvements will be noted. Any needed maintenance will be noted and enforced via the conditions described in element 5-3, 'Long-term Operation and Maintenance of BMPs', and the information will be used to modify standards and procedures if warranted.

The Department of Public Works will be responsible for evaluations of road projects and private development projects, and the Facility Services Department will be responsible for inspection of facilities under their authority. The Planning Department will assist.

Years one and two: No activity planned while post-construction program is established.

Years three through five: Perform field evaluations of recently constructed post-construction design BMPs to assess design, performance, and maintenance.

Measurable goals: Years three through five. Review post-construction BMPs at a minimum of five sites that were completed within the previous three years. Evaluate performance, design, and maintenance. Report the results in the annual reports.

Element 6. Pollution Prevention/Good Housekeeping for Municipal Operations

6-1 Public Facilities Cleaning

The goal of this element is to reduce stormwater pollution from publicly maintained County roads and facilities through periodic cleaning.

The Department of Facility Services will be responsible for County buildings and parks. The Department of Public Works will be responsible for public roads and road maintenance yards.

Currently Public Works road maintenance crews regularly sweep urban public roadways (that is, paved roads with curb and gutter in relatively high density population areas in unincorporated Auburn, Foresthill, Todd Valley, Roseville, and Granite Bay), remove trash and sediment from roadside ditches, and clean culverts with a vacuum truck. Department of Facility Services crews clean parks, buildings, and grounds.

Measurable goals: Years one through five: Sweep a minimum of 500 urban (definition above) street miles yearly. Sweep paved rural public roadways as

needed to keep roadways free from debris. Sweep paved parking lots annually. Inspect parks, buildings, and landscape areas quarterly to assure that all areas including hard surfaces and drains are free from debris, dirt, and potential pollutants. Store all landscape chemicals in accordance with BMPs. Clean public culverts yearly. Maintain public parks and buildings free from debris. Collect data about quantity of facilities cleaned, and report in annual report.

Table 6: Pollution Prevention / Good Housekeeping For Municipal Operations

POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
Develop and Implement an operation and maintenance program to prevent or reduce pollutant runoff from municipal operations (facilities and activities)					
	6-1 Public facilities cleaning	FS, DPW		August 2003 and ongoing	Measurable goals: Years one through five: Sweep a minimum of 500 urban (definition above) street miles yearly. Sweep paved rural public roadways as needed to keep roadways free from debris. Sweep paved parking lots annually. Inspect parks, buildings, and landscape areas quarterly to assure that all areas including hard surfaces and drains are free from debris, dirt, and potential pollutants. Store all landscape chemicals in accordance with BMPs. Clean public culverts yearly. Maintain public parks and buildings free from debris. Collect data about quantity of facilities cleaned, and report in annual report.
	6-2 Perform stream channel maintenance	FCD	DPW	October 2003 through January 2004, and subsequent Oct – Jan periods	Maintain a minimum of 2500 feet of stream channel yearly.
	6-3 BMP installation at County facilities				
	6-3a Evaluate County facilities	FS	DPW	January 2004 to June 2004	Evaluate all county facilities for short term and capital improvement needs. Submit quarterly reports to Regional Board summarizing progress.

POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS					
Permit Required Activity	BMPs proposed to meet requirement	Implementing Department	Departments assisting implementation	Timing for implementation of BMP	Measurable Goal for each proposed BMP
	6-3b Complete short term water quality improvements at County facilities	FS	DPW	July 2004 to June 2005	Complete all short term stormwater quality improvements at County facilities. Create a capital plan for capital improvements. Submit quarterly reports to Regional Board summarizing progress.
	6-3c Complete capital water quality improvements at County facilities	FS	DPW	July 2005 to June 2008	Complete all capital water quality improvements at county facilities. Submit quarterly reports to Regional Board summarizing progress.
	6-4 Review and revise operations manuals for county facilities.	FS	DPW	July 2005 to June 2006	Create or revise stormwater operations manuals for County facilities and operations.
Develop and implement a training program for municipal employees on how to reduce or eliminate stormwater pollution from their activities	6-5 Train staff				
	6-5a Provide orientation training to all involved County employees.	DPW	FS, B, P	August 2003 to June 2004	Provide orientation training to all involved county employees
	6-5b Provide ongoing training to all involved County employees	DPW	FS, B, P	July 2004 and ongoing	Provide yearly training to all involved county employees.

<u>Department</u>	<u>Symbol</u>	<u>Responsible Contact</u>	<u>Telephone</u>
Facility Services	FS	Director	(530) 886-4900
Public Works	DPW	Director	(530) 889-7500
Environmental Health	EH	Client Services Director	(530) 745-2300
Building	B	Chief Building Official	(530) 886-3010
Planning	P	Director	(530) 889-3000
County Counsel	CC	County Counsel	(530) 889-4044
County Executive	CEO	County Executive Officer	(530) 889-4030
Emergency Services	ES	Deputy County Executive Officer	(530) 886-5300
Sheriff	S	Sheriff	(530) 889-7800
Flood Control District	FCD	District Engineer	(530) 889-7592

6-2 Perform Stream Channel Maintenance

The Placer County Flood Control and Water Conservation District sponsors a yearly program of stream channel maintenance in certain areas of the Dry Creek watershed. Maintenance crews remove brush, sediment, and water borne trash from portions of Dry Creek in order to maintain channel capacity and prevent pollution.

The Flood Control District will be responsible for this item, with the assistance of the Department of Public Works.

Years one through five: Perform maintenance on selected areas of the Dry Creek watershed, including removal of debris and trash. Routine maintenance is performed between the months of October through January.

Measurable goals: Years one through five: perform maintenance on a minimum of 2500 feet of stream channel.

6-3 BMP Installation at County Facilities

The goal of element 6-3 is to install both non-capital and capital BMPs at County facilities for stormwater quality improvement.

The Department of Facility Services will be responsible for this element. The Department of Public Works will assist with the road system and road maintenance yards.

Under elements 5-1 and 5-2, new County facilities will be constructed using appropriate BMPs.

A comprehensive assessment of County existing facilities will be performed to identify both short term (non-capital) and long term (capital) improvements needed for stormwater quality improvement. Short term improvements will include:

- proper storage of materials and equipment
- facilities cleaning practices
- proper trash storage
- materials selections
- vehicle-washing practices
- pavement sweeping and other maintenance practices
- landscape maintenance procedures

Long term improvements will include:

- storm drain modifications
- sediment or treatment basins
- drop inlets/trench drains/infiltration trenches
- storage facilities construction
- cleaning equipment purchase

- water treatment equipment purchase

Measurable goals: Year one: Evaluate all County facilities for needed short term and long term improvements. Submit quarterly reports summarizing progress. Year two: Complete all short-term stormwater quality improvements at County facilities. Submit quarterly reports summarizing progress. Create capital plan for capital stormwater improvements and prioritize according to available budget. Year five: complete all capital installation improvements. Submit quarterly reports to Regional Board summarizing progress.

6-4 Review and Revise Operations Manuals for County Facilities

The goal of this element is to assure that County employees use appropriate source control, materials management procedures, and maintenance practices at County facilities. Existing operations manuals will be updated and new manuals will be developed to instruct county personnel on appropriate stormwater practices. Operation and maintenance requirements for County-operated BMPs identified under element 6-3 will be added to these manuals.

The Department of Facility Services will be responsible for this element. The Department of Public Works will be responsible for roads and road yards.

Measurable goals: Year three: Revise or create operations manuals that are responsive to stormwater quality for all County facilities and operations.

6-5 Train Staff

Multiple elements of this program require training for County staff. Both orientation and periodic training will be required for County employees to educate them about the program and their role.

The Department of Public Works and Department of Facility Services will be responsible for this element, with the assistance of the Building and Planning Departments.

Orientation training will be provided to affected employees regarding general stormwater practices, the NPDES program, and changes to County processes. In addition, specific training will be provided for the particular needs of each employee. Training of County employees will be performed periodically throughout the life of the program to accommodate changes in personnel and the program. Staff training will include:

- General stormwater quality practices
- Regulatory requirements
- Maintenance requirements of County-operated BMPs, per operations Manuals as described in element 6-4.
- Requirements for plan reviewers
- Selection and application of construction and post-construction BMPs

- Inspection and enforcement procedures for both illicit discharge detection personnel and construction inspection personnel.
- Sheriff's department, identification of reportable events received on the hotline.
- Road maintenance crews, identification of illicit dumping for reporting, cleanup of dumping within right-of-way,
- Illicit discharge personnel will additionally be trained in:
 - Good and bad stormwater practices
 - Identification of reportable conditions
 - Internal processes--paperwork, communication, recordkeeping

Measurable goal: Year one: Deliver at least one orientation training session to all involved County employees. Years two through five: Provide mandatory yearly training to all involved County employees specific to their program role.

State General Permit Requirements

The State's general permit contains the following broad requirements in addition to the six minimum control measures.

Adherence to Discharge Prohibitions.

The State's general permit contains three discharge prohibitions: discharges of wastes that are prohibited by the applicable Basin Plan, The Water Quality Control Plan (Basin Plan) for the California Regional Water Quality Control Board, Central Valley Region, The Sacramento River Basin and The San Joaquin River Basin, discharges that cause or threaten to cause nuisance, and discharges of material other than stormwater. The proposed enforcement illicit discharge detection and elimination ordinance in program year two will prohibit non-stormwater discharges to waters of the State. During the development of the six minimum control measure elements, the significance of the other Discharge Prohibitions will be evaluated and the SWMP amended to reflect any necessary changes.

Adherence to Effluent Limitations.

Within the State general permit, the Effluent Limitations require the implementation of BMPs that reduce pollutants to the MEP (maximum extent possible). The MEP is a standard that considers not only available technology, but also the ability of the responsible entity to pay for the technology. MEP is intended to be an evolving, flexible standard, and its application may vary by community. Communities that have greater water quality impacts are expected to put forth greater levels of efforts than those with lesser impacts.

In addition, the Effluent Limitations prohibit the discharge of hazardous substances to the storm drain system. Element 3 of the program, Illicit Discharge Detection and Elimination, requires the adoption of an ordinance or other regulatory mechanism that prohibits non-stormwater discharges, therefore prohibition of hazardous substances

should be ly accommodated within the program as proposed. Again, however, the significance of the Effluent Limitations will be further evaluated as the program is developed, and the SWMP amended to reflect any necessary changes.

Adherence to Receiving Water Limitations

For MS4s serving a population of at least 50,000, including Placer County, the general permit imposes Receiving Water Limitations. These state that the County shall not cause or contribute to an accident of water quality standards as defined in the applicable water quality plan or California Toxics Rule. The method prescribed for achieving this is through the implementation of BMPs in this SWMP. If it is determined that the water quality standards are exceeded in spite of the application of the BMPs, a procedure for promptly modifying the BMPs and SWMP is prescribed. The permit states that if this procedure is complied with, then the MS4 is not in violation of the Receiving Water Limitations.

Post-construction design standards (Attachment 4)

For MS4s serving a population of at least 50,000, including Placer County, the general permit also imposes design standards for the post-construction runoff control element of the program via attachment 4. The general permit states that attachment four of the general permit must be adopted prior to the expiration of the general permit. Placer County proposes to present these design standards or functional equivalent to the Board of Supervisors as part of element 5-3 in program year three.

Attachment 4 requirements apply to certain types of commercial and industrial development, and residential subdivisions of 10 or more housing units. For all new development, it provides for control of peak stormwater runoff rates, conservation of natural areas, minimizing pollutants of concern through various design considerations, slope protection, storm drain stenciling, proper storage of materials, proper design of trash enclosures, and proof of ongoing BMP maintenance. Hydrologic standards for sizing of water quality BMPs are dictated. In addition, specific design requirements are given for restaurants, large commercial development, parking lots, and automotive/vehicle facilities.

Submission of an annual report with specific evaluation requirements.

The State's general permit delineates monitoring requirements and reporting requirements. In this context, the word 'monitoring' depicts the need to observe and evaluate program activities and outcomes--not necessarily to require chemical water sampling. However, the State Board allows the imposition of chemical water sampling requirements at the discretion of the individual Regional Water Quality Control Boards if needed to evaluate the effectiveness of the program.

The information required in the annual report will necessitate detailed recordkeeping throughout the year, including information to be generated by multiple departments. Details regarding recordkeeping and reporting are provided in Chapter 6.

CHAPTER 4. BUDGET AND STAFFING

Funding

Funding for the program is anticipated to come from a combination of general fund, road fund for qualified activities within public rights of way, sharing of program elements with other jurisdictions, grant funding, and potentially from new development fees. Federal and State funding will also be necessary, and is anticipated in order to comply with the mandates of the NPDES included herein. Without such funding, this program schedule and content may require modification. As cited in element 2-1, the Citizen's Advisory Committee will be asked to formulate a recommended funding plan for the program.

Figure 4-1 shows the estimated program costs for the five-year program. To develop these numbers, general staff time for the BMPs as described in chapter 3 were estimated. Material costs, County BMP installation costs, and administrative costs were then added. Program year one, 2003/04, costs are expected to be about \$150,000, increasing to an estimated \$220,000 in program year five, 2007/08.

Figure 4-1 Estimated Staff Time and Program Costs

Staff Time Estimates (hours)

Year 1	Year 2	Year 3	Year 4	Year 5
03/04	04/05	05/06	06/07	07/08
1,950	2,000	2,200	2,300	2,400

Program Cost Estimates (dollars per year)

Year 1	Year 2	Year 3	Year 4	Year 5
03/04	04/05	05/06	06/07	07/08
\$150,000	\$160,000	\$190,000	\$210,000	\$220,000

By the time this SWMP is submitted to the State in March 2003, the budget will have been already been set for the upcoming fiscal year, 2003/04, which runs from July 1, 2003, until June 30, 2004. Expenses resulting from program activities have not been budgeted during this year, and must therefore wait until at least fiscal year 2004/05 to be funded.

Staffing

One half-time employee is currently applied to the program. [Figure 4-1](#) shows that this staffing level is not sufficient for the first program year (2003/04). Additional staffing is warranted to be able to execute the program as described.

As the program is developed, the staffing and need for resources will be further detailed. Beyond the conclusions above, additional staff or consultant time will likely be needed for the storm drain mapping, for staff for inspections/responses to reports of violations for the illicit discharge detection and enforcement element, and other components of the program. These will be identified as the SWMP elements are performed, and will be reported with the annual reports.

CHAPTER 5. MONITORING AND EVALUATION

The MS4 is required to periodically assess its BMPs in order to assure their effectiveness. In order to do this, it will be necessary to periodically review each activity stemming from the SWMP and assess whether it meets the intent of the program, or whether improvements are needed.

Placer County proposes to regularly review and evaluate each program activity at least once a year in order to be able to modify the program if required. Evaluations will be performed prior to producing each annual report. BMPs that are determined to be ineffective or that need improvement will be discussed in the annual report, with appropriate changes proposed.

CHAPTER 6. RECORDKEEPING AND REPORTING

The State's general permit requires the submission of an annual report, the first of which is due September 15, 2004. Subsequent reports are also due on September 15th of each year. These reports must be certified by the governing body or an official designated by the governing board.

The various County departments will submit information to the stormwater coordinator for use in the annual reports. Forms for use in recordkeeping by involved departments will be developed to facilitate collection of the information required for the annual reports. At a minimum, the annual reports will contain the following information:

- a. The status of compliance with the permit conditions, including instances of non-compliance, if any.
- b. An assessment of the appropriateness and effectiveness of the identified BMPs, including existing beneficial practices.
- c. The status of each of the identified measurable goals.
- d. The results of information collected and analyzed, including monitoring data, if any.
- e. A summary of the stormwater activities that the County plans to undertake during the next reporting cycle.
- f. Any proposed changes to the SWMP, along with a justification why the changes are necessary.
- g. A change in the persons implementing the SWMP, or changes in departmental responsibilities.
- h. Number of visitors to the stormwater website.
- i. Citizen's Advisory Committee activities.
- j. Comprehensive list of new outfalls, and receiving waters, constructed during the year.
- k. Location, frequency, and type of hazardous materials events addressed by the County's Office of Emergency Services.
- l. Illicit discharge inspections, numbers of possible illicit discharges identified, action taken, and resolution.
- m. Program year three and beyond, list of top five illicit discharge priorities for education and enforcement purposes.
- n. Numbers of post-construction BMPs maintained.
- o. Summary of data gathered (years 3-5 only) under element 5-4, including BMP failures and potential improvements in design.
- p. Discussion of funding and staffing needs.
- q. Changes in departmental responsibilities resulting from discussions of the interdepartmental coordination committee.
- r. Quantitative data regarding cleaning and maintenance of County facilities.

Appendix 1 - Definitions and Acronyms

Board	Placer County Board of Supervisors
BMP	Best Management Practice, used to describe an activity or requirement that is intended to improve stormwater quality.
CAC	Citizen's Advisory Committee
CC+R	Codes, Covenants, and Restrictions
CEO	County Executive Officer
County	County of Placer
CRMP	Coordinated Resource Management and Planning, consensus-based watershed planning groups
CVRWQCB	Central Valley Regional Water Quality Control Board, our first-line State regulatory agency for this program.
CWA	Clean Water Act, the Federal legislation from which this program stems.
DRE	California Department of Real Estate
EPA	Environmental Protection Agency
General Permit	A general permit issued by the State that defines the program requirements for most jurisdictions subject to the NPDES stormwater Phase II. A jurisdiction may also choose to apply for an individual permit with the State, however this is generally recognized as being more time and effort consuming than adhering to the general permit.
GIS	Geographical Information System
GPS	Global Positioning System
IOD	Irrevocable offer of easement dedication
MCM	Minimum Control Measure, used to describe the one of the six general activities of this program that are required by the federal legislation
MEP	Maximum Extent Practicable. MEP is a standard that considers not only available technology, but also the ability of the responsible entity to pay for the technology. MEP is intended to be an evolving, flexible standard, and its application may vary by community. Communities that have greater water quality impacts and resources are expected to put forth greater levels of efforts than those with lesser impacts and resources.
MS4	Municipal Separate Storm Sewer System, term used to describe generally those entities subject to this program.
NOI	Notice of Intent. A two page form to be filed with the State on or before March 10, 2003 stating the intent of the jurisdiction to comply with the State's general permit for this program, rather than create its own unique permit.
NPDES	National Pollutant Discharge Elimination System, term used in the Clean Water Act to describe a series of different types of permits issued by the Federal Government (or designated States such as California), all intended to improve water quality.
OES	Placer County Office of Emergency Services
O + M	Operation and Maintenance
Phase II	the second phase of the municipal stormwater NPDES program, i.e. this program
Plan	this Stormwater Management Plan
Program	the NPDES municipal stormwater Phase II program
PRSCG	Placer Regional Stormwater Coordination Group, a group of representatives from Placer County, all the Placer County cities, and other Placer County stormwater entities that meets regularly to assist one another, compare program components, look for ways to share program elements, and discuss other regional stormwater issues.
Separate Implementing Entity	a term defined by the State in the general permit for one jurisdiction that assimilates responsibility for all or part of another jurisdiction's program.
SUSMP	Standard Urban Stormwater Management Plan, used to describe the standard set of design requirements for water quality protection in new development and substantial redevelopment as attachment four to the State's general permit.
SWMP	Stormwater Management Plan, i.e. this Plan
SWPPP	Stormwater Pollution Prevention Plan, generally used in the context of the construction site management plan required by the State's construction general stormwater permit, and not the SWMP required by the municipal MS4 stormwater permit.

WDID	Waste Discharge Identification Number, permit number issued by the CVRWQCB when a waste discharge permit is issued.
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Appendix 2 - Placer County Grading and Erosion Prevention Ordinance

PLACER COUNTY GRADING AND EROSION PREVENTION ORDINANCE

AN ORDINANCE ESTABLISHING MINIMUM STANDARDS AND PROVIDING REGULATIONS FOR GRADING, CONSTRUCTION AND MAINTENANCE OF LAND FILLS OR EARTH FILLS AND EXCAVATION AND FOR EROSION AND SEDIMENT CONTROL

The Board of Supervisors of Placer County, State of California, does ordain as follows:

CHAPTER 29 GRADING, EROSION AND SEDIMENT CONTROL

ARTICLE I. PURPOSE AND DEFINITIONS

SEC. 29.100 TITLE

This Ordinance shall be known as the Grading and Erosion Prevention Ordinance of Placer County.

SEC. 29.110 PURPOSE

This Ordinance is enacted for the purpose of regulating grading on property within the unincorporated area of Placer County to safeguard life, limb, health, property and public welfare; to avoid pollution of watercourses with hazardous materials, nutrients, sediments, or other earthen materials generated on or caused by surface runoff on or across the permit area; and to ensure that the intended use of a graded site is consistent with the Placer County General Plan, any Specific Plans adopted thereto and applicable Placer County Ordinances including the Zoning Ordinance, Flood Damage Prevention Ordinance, (Subchapter XII of Chapter 4) Environmental Review Ordinance (Chapter 31 Placer County Code) and applicable Chapters of the California Building Code. In the event of conflict between applicable chapters and this ordinance, the most restrictive shall prevail will prevail.

SEC. 29.120 DEFINITIONS

Unless the particular provision or the context otherwise requires, wherever the following terms are used in this Ordinance, they shall have the meaning ascribed to them in this section:

AGRICULTURAL OPERATION is any land related activity for the purpose of cultivating or raising plants grown in the ground or raising animals or conserving or protecting lands for such purposes when conducted on agriculturally zoned lands and is not surface mining or borrow pit operations.

BEDDING PLANE is originally a nearly flat surface, which may have been tilted up or folded by tectonic forces, separating two beds (or layers or strata) of sedimentary rock. Each bedding plane marks the end of one deposit and the beginning of another having different characteristics (also known as strata, or beds.)

BEDROCK is the solid undisturbed rock in place either exposed at the ground surface or beneath surficial deposits of loose rock or soil.

BENCH is a relatively level step excavated into sloping natural ground on which engineered fill or embankment fill is to be placed.

BOARD is the Board of Supervisors of the County of Placer.

CIVIL ENGINEER is a professional engineer registered as a Civil Engineer by the State of California.

COMPACTION is the increase of density of a soil or rock fill by mechanical means.

CUT. See Excavation.

DAYS is calendar days, except that such time limits shall extend to the following working day where the last of the specified number of days falls on a Saturday, Sunday or any County holiday.

DEPTH OF FILL is the vertical dimension from the exposed fill surface to the original ground surface.

DEPTH OF EXCAVATION (Cut) is the vertical dimension from the exposed cut surface to the original ground surface.

DIRECTOR OF ENVIRONMENTAL HEALTH is the Director of the Department of Health and Human Services, Placer County, California acting either directly or through authorized deputies.

DIRECTOR OF PUBLIC WORKS is the Director of Public Works of Placer County, California, acting either directly or through authorized deputies.

DRAINAGE WAY is a depression in the earth's surface such as swales, ravines, gullies, draws, hollows, or ditches in which surface waters collect for drainage, but which otherwise are destitute of water.

EMBANKMENT. See Fill.

ENGINEERING GEOLOGIST is a registered geologist certified as an Engineering Geologist by the State of California.

ENGINEERING GEOLOGY is the application of geologic knowledge in the investigation and evaluation of naturally occurring rock and soil for use in the design of civil works.

EROSION is the wearing away and transportation of earth material as a result of the movement of wind, water, or ice.

EXCAVATION (Cut) is the removal of naturally occurring earth materials by mechanical means, and includes the conditions resulting there from.

EXISTING GRADE is the elevation of the ground surface at a given point prior to excavating or filling.

EXPANSIVE SOIL is any soil, which exhibits significant expansive properties as determined by a geotechnical engineer, civil engineer, or the Director of Public Works.

FILL (Embankment) is the deposit of soil; rock or other materials placed by man and includes the conditions resulting there from.

FINISH GRADE is the final grade of the site after excavating or filling, which conforms to the approved final grading plan. The finish grade is also the grade at the top of a paved surface.

FOLIATION PLANE is a linear plane formed in metamorphic rock caused by heat and pressure. The planes in the Sierra Foothills usually trend north south and are tilted at a steep slope with folds and intrusions.

GEOLOGIC HAZARD is any condition in naturally occurring earth materials, which may endanger life, health, or property.

GEOTECHNICAL ENGINEER is a Civil Engineer registered by the State of California who is qualified in the field of soil mechanics, soil engineering, and has the authority to use the title "Soil Engineer".

GEOTECHNICAL ENGINEERING is the application of the principles of soil mechanics in the investigation, evaluation and design of civil works involving the use of earth materials and may include the inspection, testing, and construction thereof.

GRADE is the vertical location of the ground surface. EXISTING GRADE is the grade prior to grading.

ROUGH GRADE is the stage at which the grade approximately conforms to the approved plan.

GRADING is any land excavation or filling or combination thereof, or the removal, plowing under or burial of vegetative groundcover.

GRADING PLAN is a plan prepared in accordance with this ordinance showing grading and related work.

GRADING WORK is grading and related work, such as, but not limited to, drainage improvements and erosion and sediment control.

HAZARDOUS MATERIALS are as defined in Health & Safety Code sections 25501 et seq.

JOINT is a fracture in rock that is produced by expansion, contraction, and tectonic forces, and along which there has been no movement.

KEYWAY is a special backfilled excavation, which is constructed beneath the toe area of a planned fill slope on sloping ground to improve the stability of the slope.

LANDSCAPE ARCHITECT is a landscape architect registered by the State of California.

LEVEL, LAND LEVELING OPERATION is the physical movement of rock or soil which results in a change in the topography of the land, which results in the land being more level than before.

LOT. See Parcel.

OWNER is the person shown as the legal owner of the property on the latest equalized assessment roll in the Office of the County Assessor.

OVERLAND FLOW includes flow over planar surfaces, including but not limited to roofs, streets, lawns, parking lots, and fields.

PARCEL (Lot) is land described as a lot or parcel in a recorded deed or shown as a lot or parcel on a subdivision map or parcel map on file in the County Recorder's Office.

PERMIT is an approved grading permit issued pursuant to this Ordinance authorizing certain grading work.

PERMITTEE is any person to whom a permit is issued pursuant to this Ordinance.

PERSON is any individual, firm, corporation or public agency whether principal, agent, employee, or otherwise.

PLANNING DIRECTOR is the Director of the Planning Department of Placer County, California, acting directly or through his authorized agents.

RAINY SEASON is the period of the year during which there is a substantial risk of rainfall. For the purpose of this Ordinance, the rainy season is defined as from October 15 to May 1, inclusive.

RECORD DRAWINGS are drawings for improvements or grading that show changes made during construction.

RETAINING WALL is any constructed wall that holds back earth (or a liquid), and where there is an abrupt change in elevation.

SEDIMENT is any material transported or deposited by water, including soil debris or other foreign matter.

SITE is any lot or parcel of land or combination of contiguous lots or parcels of land, whether held separately or joined together in common ownership or occupancy where grading is to be performed or has been performed.

SLOPE is an inclined ground surface the inclination of which may be expressed as the ratio of horizontal distance to vertical distance or as the ratio of vertical distance per 100 feet horizontal distance when given as a percent.

SOIL is all earth material of any origin that overlies bedrock and may include the decomposed zone of bedrock, which can be excavated readily by mechanical equipment.

STORMWATER RUNOFF is water runoff due to storms, (rain, snow melt, etc.).

STRUCTURE is that which is built or constructed or any piece of work artificially built up or composed of parts joined in some definite manner.

SURCHARGE is the additional loading acting above and behind a retaining wall other than from the normal active soil pressures, i.e.; examples of surcharges include but are not limited to vehicles, buildings, snow, sloped backfill, stockpiles, construction staging areas and equipment.

TAHOE BASIN is the unincorporated area of Placer County, which is adjacent to and drains into Lake Tahoe.

TERRACE is a relatively level step constructed in the face of a graded slope surface for drainage, maintenance, or other purposes.

VEHICULAR WAY is a private roadway or driveway.

VEGETATION is plant life or total plant cover of an area.

WATERCOURSE is any natural or manmade channel flowing continuously or intermittently in a definite direction and course or used for the holding, delay, or storage of waters, which functions at any time to convey or store stormwater runoff.

At the discretion of the Director of Public Works, the definition of natural channel may be limited to those channels having a watershed area of 50 acres or more, and this definition will be commonly used in connection with the administration of this Ordinance except for those cases in which the Director of Public Works determines that the definition must be extended to a natural channel with a watershed smaller than 50 acres in order to prevent a condition which could possibly endanger property, be a hazard to public safety, adversely affect the safety, use or serviceability of adjacent property, public way or drainage channel, or could adversely affect the water quality of any water bodies or watercourses.

WORK. See Grading Work.

ARTICLE II. GENERAL REQUIREMENTS

SEC. 29.200 GRADING

No person shall do or permit to be done any grading in such a manner that quantities of dirt, soil, rock, debris, or other material substantially in excess of natural levels are washed, eroded, or otherwise moved from the site, except as specifically provided for by a permit.

SEC. 29.210 WATER OBSTRUCTION

No person shall do or permit to be done any grading which may obstruct, impede or interfere with the natural flow of storm waters, in such manner as to cause flooding where it would not otherwise occur, aggravate any existing flooding condition or cause accelerated erosion. This section applies whether such waters are unconfined upon the surface of the land or confined within land depressions or natural drainage ways, unimproved channels or watercourses, or improved ditches, channels or conduits.

SEC. 29.220 GRADING PERMIT REQUIRED

Except for the specific exemptions listed in section 29.230, no person shall do or permit to be done any grading on any site in the unincorporated area of Placer County without a valid permit obtained from the Director of Public Works. A permit shall also be required for the following:

retaining walls which are over four feet in height; as measured from bottom of footing to top of the retained soil;

(b) any retaining walls that are subject to surcharge;

(c) private vehicular bridge;

(d) swimming pool fill operations whereby depth of fill for swimming pool construction exceeds four feet.

SEC. 29.230 EXEMPTIONS

Unless in conflict with provisions of adopted General and/or Specific Plans, the following grading may be done without obtaining a permit. Exemption from the requirement of a permit shall not be deemed permission to violate any provision of this Ordinance.

(a) Minor projects, which have cuts, or fills, each of which is less than four feet in vertical depth at its deepest point measured from the existing ground surface, and which meet all of the following criteria:

(1) Less than 250 cubic yards of graded material in a single area, within a two-year period. In calculating the graded material quantity, excavation material used as fill material will not be counted twice. (For example: 125 cubic yards [C.Y.] of excavation material that is also placed as fill material would be calculated as 125 cubic yards, not as 125 C.Y. + 125 C.Y. = 250 C.Y.)

The removal, plowing under or burial of less than 10,000 square feet of vegetation on slopes ten percent or greater or any amount of vegetation on slopes less than ten percent on areas of land less than one acre within a two year period.

(3) Does not create unstable or erodible slopes.

Does not encroach onto sewage disposal systems including leach field areas.

Does not encroach into the areas designated as Zone A as shown on the Flood Insurance Rate Maps.

Does not obstruct any watercourse.

Does not divert or obstruct overland flow, or negatively affect other adjacent properties.

(b) Grading done by or under the supervision or construction control of a public agency that assumes full responsibility for the work.

Excavations, (but not fill operations) in connection with a swimming pool authorized by a valid building permit. Any swimming pool fill operation must comply with 29.220(d) to be exempt.

Retaining walls less than four feet in height, as measured from bottom of footing to the top of the wall, and not subject to surcharge.

Grading necessary for agricultural operations unless such grading will create a cut or fill whose failure could

endanger any structure intended for human or animal occupancy or any public road, or could obstruct any watercourse or drainage conduit.

Trenching and grading incidental to the construction or installation of approved underground pipe lines, septic tank disposal fields, conduits, electrical or communication facilities, and drilling or excavation for postholes or approved wells.

(g) Excavations less than 250 cubic yards for soil or geological investigations by a Geotechnical Engineer, Civil Engineer, or Engineering Geologist.

(h) Grading in accordance with plans incorporated in an approved surface mining permit, reclamation plan, or sanitary landfill or environmental remediation project or petroleum product tank removal and installation where governed by other state or county ordinance.

(i) Maintenance of existing firebreaks and roads to keep the firebreak or road substantially in its original condition.

(j) Routine cemetery excavations and fills.

Performance of emergency work necessary to protect life or property when an urgent necessity therefore arises. The person performing such emergency work shall notify the Director of Public Works promptly of the problem and work required and shall apply for a permit therefore within ten (10) calendar days after commencing said work.

An excavation below finished grade for basements and footings of a building authorized by a valid building permit.

Timber harvest operation conducted under valid state or federal permit, stream alteration permits, dams under state jurisdiction, etc.

SEC. 29.240 FEES

The schedule of fees and costs shall be those established and adopted by the Board from time to time by resolution or ordinance. Before a permit is issued, the applicant shall deposit with the Director of Public Works cash or a check, in a sufficient sum to cover the fee for issuance of the permit, charges for review of plans, specifications and reports, other engineering services, field investigations, necessary inspection or other work and routine laboratory tests of materials and compaction, all in accordance with schedules established and adopted by the Board.

No fee shall be required of public agencies.

(c) Public utilities may, at the option of the Director of Public Works, make payment for the above charges as billed by the Director of Public Works instead of by advance deposit as required above.

If grading work is done in violation of this Ordinance or such work is not done in accordance with an approved permit, a fee covering investigation of any violation and inspection and plan checking of work required to correct such violation shall be charged to the violator to cover all actual costs.

SEC. 29.250 LEVEE WORK

No person shall excavate or remove any material from or otherwise alter any levee required for river, creek, bay, or local drainage control channel, without prior approval of the local governmental agency responsible for the maintenance of the levee.

SEC. 29.260 CONSTRUCTION IN PUBLIC RIGHTS-OF-WAY

No person shall perform any grading work within the right-of-way of a public road or street, or within a public easement, without prior written approval of the Director of Public Works.

SEC. 29.265 HAZARDS

If the Director of Public Works determines that any grading on private or public property constitutes a hazard to public safety, endangers property, adversely affects the safety, use or stability of adjacent property, or an overhead or underground utility, or a public way, watercourse or drainage channel, or could adversely affect the water quality of any water bodies or watercourses, the Director may issue a stop work notice to the owner of the property upon which the condition is located, or other person or agent in control of said property. Upon receipt of said stop work notice, the recipient shall, within the period specified therein, stop all work, obtain a grading permit, and conform to the conditions of said permit. The Director of Public Works may require the submission of plans or soil or geological reports, detailed construction recommendations, drainage study or other engineering data prior to and in connection with any corrective or proposed work or activity.

SEC. 29.270 TAHOE BASIN AREA SPECIAL RESTRICTIONS AND EXEMPTIONS

(a) Provisions of this Section apply to the unincorporated area of Placer County within that area defined as "TRPA REGION" in the Tahoe Regional Planning Agency Compact. This area is the Tahoe Basin and that additional and adjacent part of the county of Placer outside of the Tahoe Basin in the State of California which lies southward and eastward of a line starting at the intersection of the basin crestline and the north boundary of section 1, thence west to the northwest corner of section 3, thence south to the intersection of the basin crestline and the west boundary of section 10; all sections referring to township 15 north, range 16 east, M.D.B. & M.

(b) Grading shall be prohibited during the period from October 15 through May 1 unless otherwise provided by this Ordinance. The County may require complete winterization of any project after October 15.

(c) All work shall be in conformity with any grading restriction required by other federal, state, or local agencies.

(d) A permit for grading on residential property issued by the Tahoe Regional Planning Agency will be evidence of conformity to provisions of this section. All grading on other than single-family residential property in the REGION is subject to review and approval by the Placer County Public Works Department.

(e) All other applicable provisions of this Ordinance shall apply, but a permit shall not be required if the work complies with all the following conditions.

(1) The excavation does not exceed four (4) feet in vertical depth at its deepest point measured from the original ground surface, does not exceed 200 square feet in area, and does not exceed three (3) cubic yards per site.

(2) The fill does not exceed three (3) feet in vertical depth at its deepest point measured from the original ground surface, the fill material does not cover more than 200 square feet, and does not exceed three (3) cubic yards per site.

(3) Clearing of vegetation, which does not exceed 1000 square feet in area.

All grading activities east of the Sierra crest and outside the TRPA REGION are prohibited between October 15 and May 1 without written approval of the Director of Public Works.

SEC. 29.280 TRANSFER OF PERMIT

No permit issued under this Ordinance may be transferred or assigned in any manner whatsoever, without the express written consent of the Director of Public Works.

SEC. 29.285 RIGHT OF ENTRY

As a condition of the permit, the property owner shall grant the County a right of entry for the duration of the permit until after final inspection. Whenever necessary to enforce the

provisions of this ordinance the Director of Public Works or his designee may enter the premises to perform any duty imposed by this ordinance.

SEC. 29.290 LIABILITY

Neither issuance of a permit under the provisions of this ordinance nor compliance with the provisions hereof or with any conditions imposed in a permit issued hereunder shall relieve any person from responsibility for damage to any person or property or impose any liability upon the County of Placer for damage to any person or property.

SEC. 29.295 DENIAL OF OTHER PERMITS

No building permit, septic, water, sewer, electrical permit, or any other permit shall be issued by the County to any person for any premises or portion thereof, which is in violation of this ordinance.

SEC. 29.296 GRADING PRIOR TO APPROVAL OF IMPROVEMENT PLANS

Property owners who submit applications for permits for grading for projects that have an approved tentative map or the intended use has an approved discretionary zoning permit, (Ch. 30, P.C.C.) or is in compliance with the design review process (Sec. 5.55, Ch. 30, P.C.C.) must comply with the following requirements:

(a) A separate Grading Plan shall be submitted for review and approval by the Director of Public Works. This plan shall conform to the requirements of this Grading Ordinance and any applicable conditions placed on the project as a result of any formal discretionary permit process. The applicant shall acknowledge that any additional grading or revisions to work necessitated by conflicts discovered during the improvement plan check or subsequent construction will be corrected at the applicant's expense.

The property owner shall submit a Revegetation and Winterization Plan for review and approval. This plan shall include a performance agreement with Placer County, which includes a specific schedule for performance of the subject grading, an Engineer's Estimate of Cost for implementing the Plan, and cash or other approved form of security to insure the timely performance of the Plan.

Plan Check and Inspection Fee Deposit shall be required in the amount of the full plan check fee applicable at the time of submittal and a deposit of 25% of the full inspection fee at time of grading permit approval.

A Drainage Report shall be required as per the requirements of this Grading Ordinance and the Placer County Land Development Manual.

SEC. 29.297 NOT RETROACTIVE

The provisions of this ordinance shall not apply to construction for which all previously necessary permits were obtained, before the effective date of the ordinance or any subsequent amendments.

SEC. 29.298 SEVERABILITY

If any section, subsection, paragraph, subparagraph, sentence, clause or phrase of this Ordinance is for any reason held to be invalid or unconstitutional, such invalidity or unconstitutionality shall not affect the validity or constitutionality of the remaining portions of this Ordinance; and the Board declares that this Ordinance and each section, subsection, paragraph, subparagraph, sentence, clause, and phrase thereof would have been adopted irrespective of the fact that one or more of such section, subsection, paragraph, subparagraph, sentence, clause or phrase be declared invalid or unconstitutional.

ARTICLE III. PROCEDURES

SEC. 29.300 FILING

Applications for permits shall be filed with the Director of Public Works on forms furnished by the department. Each application shall include a plan-checking fee and other fees as required, grading plans and a statement of the intended use of the site. Only one application and permit is allowed for grading work to be done on a site. The Director of Public Works shall determine whether the application is complete or whether additional information is required from the applicant. The applicant shall be notified within ten (10) working days, and provided outstanding requirements in writing if the application is deemed incomplete.

SEC. 29.310 COMPLIANCE WITH CEQA

The California Environmental Quality Act (CEQA) and the Placer County Environmental Review Ordinance may require the preparation of environmental documents concerning a proposed grading project. Any required environmental review must be completed before the grading permit application will be deemed complete.

SEC. 29. 320 NOTICE TO ADJACENT UTILITY OWNERS

Applicant shall provide, with the application, documentation that they shall/have notified by mail the owners of utilities on or abutting the site that an application for a grading permit has been submitted to the County of Placer. The notice shall state that the utilities must provide comments to Placer County within 30 calendar days of the date the notice is received by the utility. No permit shall be issued until the utility has either approved the application or the 30-day period has expired. The Director in his/her sole discretion may waive this section.

SEC. 29.330 REFERRAL TO OTHER PUBLIC AGENCIES

The Director of Public Works may refer an application to other interested public agencies for their recommendations.

SEC. 29.340 PERMIT CONDITIONS

(a) No permit shall be granted unless the project conforms to the Placer County General Plan, any Community or Specific Plans adopted thereto and applicable Placer County Ordinances including the Zoning Ordinance.

(b) Where a proposed grading project requires the filing of a tentative map or the intended use requires approval of a discretionary zoning permit, no grading permit shall be granted prior to approval by the applicable planning authority.

(c) The permit shall be limited to work shown on the grading plans as approved by the Director of Public Works. In granting a permit, the Director of Public Works may impose any condition deemed necessary to protect the health, safety and welfare of the public, to prevent the creation of a hazard to public or private property, prevent erosion and to assure proper completion of the grading, including but not limited to:

(1) Mitigation of adverse environmental impacts as disclosed by any environmental document findings. This includes the proper disposal of any hazardous material identified in the initial planning phase. The Director of Health and Human Services will approve hazardous materials management.

(2) Improvement of any existing grading to comply with the standards of this Ordinance.

(3) Requirements for fencing or other protection of grading which would otherwise be hazardous.

Requirements for dust, erosion, sediment and noise control, and hours of operation and season of work, weather conditions, sequence of work, access roads, and haul routes.

(4) Requirements for safeguarding watercourses, whether natural or man-made, from excessive deposition of sediment or debris in quantities exceeding natural levels.

(5) Requirements for safeguarding areas reserved for on-site sewage disposal.

(6) Assurance that the land area in which grading is proposed and for which habitable structures are proposed is not subject to hazards of land slippage or significant settlement or erosion and that the hazards of flooding can be eliminated or adequately reduced.

(7) Requirements for safeguarding existing water wells.

SEC. 29.350 PERMISSION OF OTHER AGENCIES OR OWNERS

No permit shall relieve the permittee of responsibility for securing other permits or approvals required for work, which is regulated by any other department or agency of the County, or other public agency, or for obtaining any easements or authorization for grading on property not owned by the permittee. Proof of issuance of applicable public agency permits may be required before the issuance of a grading permit.

SEC. 29.360 LOCATION OF PROPERTY LINES

Whenever the location of a property line or easement or the title thereto is disputed during the application process or during a grading operation, a survey by a licensed Land Surveyor or

Civil Engineer or resolution of title, all at the expense of the applicant, may be required by the Director of Public Works.

SEC. 29.370 TIME LIMITS

(a) The permittee shall perform and complete all the work required by the permit within time limits specified in the permit. If the work cannot be completed within the specified time, a request for an extension of time setting forth the reasons for the requested extension shall be presented in writing to the Director of Public Works no later than 30 days prior to the expiration of the permit. The Director of Public Works may grant additional time for the permitted work to be completed.

(b) If all of the permit work required is not completed within the time limit specified in Subsection (a) above, no further grading shall be done without renewing the permit. A written request for renewal shall be submitted to the Director of Public Works who may require a new application and fees depending upon the time between the expiration date and the renewal request, revisions in County regulations, and/or changed circumstances in the immediate area. Any revised plan shall be submitted to the Director of Public Works for review, and any costs thereof shall be at the applicant's expense.

SEC. 29.380 VALIDITY

The issuance of a permit or approval of plans and specifications shall not be construed as an approval of any violation of the provisions of this Ordinance or of any other applicable laws, ordinances, rules, or regulations.

SEC. 29.390 APPEALS

Appeals on decisions pursuant to this Ordinance shall be made to the Planning Commission in writing, setting forth the specific grounds thereto within 10 calendar days from the date of such decision. An appeal fee as set from time to time by the Board of Supervisors shall accompany the written appeal. The Planning Commission shall consider the appeal per the requirements of Section 25.140 D.4.C. of Chapter 30, P.C.C. after receiving the written appeal. The appeal hearing may be continued from time to time at the request of the appellant or by a majority vote of the membership of the Planning Commission.

ARTICLE IV. PLANS AND SPECIFICATIONS

SEC. 29.400 APPLICATION - PLANS

(a) Each application for a grading permit shall include the following:

A completed application form

Two complete sets of grading plans

Profiles, cross sections, and specifications as required

A complete drainage report as required by the Director of Public Works

The application fee as determined by the Board of Supervisors.

(b) The plans and other documents will be reviewed by the Department of Public works. The applicant and/or project engineer will be notified of any necessary changes to the plans. When the Director of Public Works has approved the plans and other documents, a Grading Permit will be issued for the project. All work must be done in strict conformance with the approved plans and documents. The approved plans shall not be changed or altered except in accordance with the provisions of this ordinance.

SEC. 29.410 GRADING PLANS - ENGINEER REQUIRED

(a) All plans and specifications shall be prepared and signed by a Civil Engineer except that the Director of Public Works may waive this requirement if the proposed grading does not:

Endanger the public health, safety and welfare.

Require cuts and fills involving a combined total of 1500 cubic yards of dirt or more, or where depth of fill exceeds 10 feet.

(3) Include an access road serving five or more existing or potential residences.

(4) Require a cut or fill that is situated so as to cause unduly increased soil pressure or reduce earth support upon adjacent structure or property.

(5) Include the construction of any drainage or sediment control structures, culverts, or facilities or substantial alteration of any existing drainage course.

(6) Include the creation or aggravation of an unstable slope condition.

(7) Require construction of any retaining wall over 4 feet in height.

(8) Include the construction of a vehicular bridge.

SEC 29.420 REQUIREMENTS FOR ENGINEERED GRADING PLANS

Grading plans and specifications shall be prepared and signed by a Civil Engineer, as provided herein.

(a) The plans shall include the following:

(1) All plans shall be on 24" x 36" sheets unless otherwise approved, and shall be drawn at a scale no less than 1" = 100 feet.

(2) A title block. Plans shall be entitled "Grading Plan" and state the purpose of the proposed grading and the name of the engineer or firm by whom this plan is prepared, owner's name and address, and site address.

- (3) A vicinity sketch (not at map scale) indicating the location of the site relative to the principal roads, lakes, and watercourses in the area.
- (4) North arrow and scale.
- (5) A site plan indicating the extent of the work and any proposed divisions of land.
- (6) The complete site boundaries and locations of any easements and rights-of-way traversing or adjacent to the property.
- (7) The location of all existing or proposed roads, buildings, wells, pipelines, watercourses, septic systems or areas reserved for on-site sewage disposal, and any other structures, facilities, and features of the site, as well as the location of all improvements on lots within 50' of the proposed work.
- (8) Location and nature of known or suspected soil or geologic hazard areas, including but not limited to serpentine rock areas, landslides, etc.
- (9) Accurate contour lines of the existing terrain and proposed finished grade at intervals not greater than five feet, or spot elevations 25 feet on center showing all topographic features and drainage patterns throughout the area where the proposed grading is to occur relative to a bench mark established on site. The contour lines/spot elevations shall be extended to a minimum of 50 feet beyond the affected area, and further, if needed, to define intercepted drainage, and shall be extended a minimum of 100 feet outside of any future road right-of-way.
- (10) Approximate location of cut and fill lines extent and finished slopes of all proposed grading and the limits of grading for all proposed grading work, including borrow and stockpile areas.
- (11) Location, width, direction of flow and approximate location of any watercourses including tops and toes of banks.
- (12) Approximate boundaries of any areas with histories of flooding.
- (13) Cross sections, profiles, elevations, dimensions, and construction details based on accurate field data as may be required after initial review of plans.
- (14) Construction details for roads, watercourses, culverts, bridges and drainage devices, retaining walls, cribbing, dams, and other improvements existing or to be constructed, together with supporting calculations and maps as may be required after initial review of plans.
- (15) Proposed provisions for storm drainage control and any existing or proposed flood control facilities or septic tank disposal fields or areas reserved for on-site sewage disposal near the grading.
- (16) A detailed erosion and sediment control plan including specific locations, construction details, and supporting calculations for temporary and permanent sediment control structures and facilities.

(17) A revegetation plan, including temporary erosion control plantings, permanent slope plantings, replacement of temporary groundcover, and irrigation facilities.

(b) Additional supporting information which may be required includes, but is not necessarily limited to:

- (1) An estimate of the quantities of excavation and fill.
- (2) The location of any borrow site or location for disposal of surplus material.
- (3) A projected schedule of operations, including, as a minimum, the dates of:
 - a) Commencement of work.
 - b) Start and finish of rough grading.
 - c) Completion of drainage facilities.
 - d) Completion of work in any watercourse.
 - e) Completion of erosion and sediment control facilities.

f) Completion of hydromulching and other landscaping. If rough grading is proposed between October 15 and May 1, a more detailed schedule of grading activities and use of erosion and sediment control facilities may be required.

- (4) Itemized cost estimate of the proposed grading and related work.

(5) A complete drainage study in conformance with the Placer County Flood Control and Water Conservation District's Storm Water Management Manual (latest edition).

(6) Geotechnical investigation report and recommendations addressing the proposed work.

SEC. 29.430 RETENTION OF APPROVED PLANS

Three (3) sets of approved plans and specifications shall be retained by the Director of Public Works.

SEC. 29.440 MODIFICATION OF APPROVED PLANS

(a) Proposed modifications of an approved final plan shall be submitted to the Director of Public Works for written approval.

(b) All necessary soils and geological information and design details shall accompany any proposed modification.

(c) The modification shall be compatible with any subdivision map or land use requirements.

SEC. 29.450 SEASONAL REQUIREMENTS

Implementation of erosion and sediment control plans shall be based on the season of the year and the stage of construction at forecasted periods of rainfall and heavy storms. Erosion and sediment control plans shall allow for possible changes in construction scheduling, unanticipated field conditions, and relatively minor changes in grading. Modifications to plans may be required after initial plan approval.

ARTICLE V. GEOTECHNICAL INVESTIGATIONS & INSPECTIONS

SEC. 29.500 GEOTECHNICAL INVESTIGATION REQUIRED

A soil or geologic investigation report shall accompany the application in any of the following circumstances when required by the Director:

(a) When the proposed grading includes a cut or fill exceeding ten feet in depth at any point; however, for vehicular ways, a soil investigation shall not be required unless the grading includes a proposed cut or fill that exceeds ten feet in depth and the slope of the natural ground exceeds 30 percent.

(b) When highly expansive soils are present.

(c) In areas of known or suspected geological hazards, including landslide hazards and hazards of ground failure stemming from seismically induced ground shaking.

SEC. 29.510 INVESTIGATIONS

Those portions of the soil or geologic investigation that constitutes "civil engineering" as defined by Section 6734 of the Business and Professions Code of the State of California shall be conducted by or under the direct supervision of a Geotechnical Engineer or Civil Engineer. Those portions of the investigation that involve the practice of "geology" as defined by Section 7802 of the Business and Professions Code of the State of California shall be conducted by an Engineering Geologist.

The investigations shall be based on observations and tests of the material exposed by exploratory borings or excavations and inspections made at appropriate locations. Additional studies may be necessary to evaluate soil and rock strength, the effect of moisture variation on soil, bearing capacity, compressibility, expansiveness, stability, keying, subdrainage benching and other factors. Grading factors such as moisture variability, ability to compact the material when wet, etc. should be evaluated.

SEC. 29.520 REPORTS - GENERAL

Any soil or geologic investigation report shall be subject to the approval of the Director of Public Works who may require supplemental reports and data. Recommendations included in the reports and approved by the Director of Public Works shall be incorporated in the final plans and specifications.

SEC. 29.530 SOIL/GEOLOGIC INVESTIGATION REPORT

The soil or geologic investigation report shall contain all of the following, as they may be applicable to the subject site:

- (a) An index map showing the regional setting of the site.
- (b) A site map which shows the topographic features of the site and locations of all soil borings and test excavations.
- (c) A classification of the soil types (Unified Soil Classification); pertinent laboratory test data and consequent evaluation regarding the nature, distribution, and strength of existing soils.
- (d) A description of the geology of the site and geology of the adjacent areas when pertinent to the site.
- (e) A suitably scaled map and cross sections showing all identified areas of land slippage.
- (f) A description of any encountered groundwater or excessive moisture conditions.
- (g) A description of the soil and geological investigative techniques employed.
- (h) A log for each soil boring and test excavation showing elevation at ground level and the depth of each soil or rock strata.
- (i) An evaluation of the stability of pertinent natural slopes and recommendations regarding maximum cut and fill slopes of proposed work.
- (j) An evaluation of settlement associated with the placement of any fill.
- (k) Recommendations for grading procedures and specifications, including methods for excavation and subsequent placement of fill.
- (l) Recommendations regarding surface and subsurface drainage and erosion control.
- (m) Recommendations for mitigation of geologic hazards.

SEC. 29.540 FINAL REPORT

Upon completion of rough grading work, in the event a complete record of the work is desired or necessary, the Director of Public Works may require a final geotechnical report that includes, but is not necessarily limited to the following:

- (a) A complete record of all field and laboratory tests including location and elevation of all field tests.
- (b) A professional opinion regarding slope stability, soil bearing capacity, and any other pertinent information.

(c) Recommendations regarding foundation design, including soil bearing potential and building restrictions or setbacks from the top or toe of slopes.

(d) A declaration by the Geotechnical Engineer, Civil Engineer or Engineering Geologist in the format required by the Director of Public Works that all work was done in substantial conformance with the recommendations contained in the soil or geologic investigation reports as approved and in accordance with the approved plans and specification.

SEC. 29.550 CHANGED CONDITIONS

Where soil or geologic conditions encountered in the grading operation deviate from that anticipated in the soil and geologic investigation reports or where such conditions warrant changes to the recommendations contained in the original soil investigation, a revised soil or geologic report shall be submitted for the approval of the Director of Public Works.

SEC. 29.560 SPECIAL INSPECTION

(a) As a condition of the permit, the Director of Public Works may require the permittee to retain a private Geotechnical Engineer or Civil Engineer to directly supervise perform continuous inspection work, and upon completion of the work to provide a written statement acknowledging that he/she has inspected the work and that in his/her professional judgment the work was performed in accordance with the approved plans and specifications. The permittee shall make his own contractual arrangements for such services and shall be responsible for payment of all costs. Continuous inspection by a Geotechnical Engineer or Civil Engineer shall include, but not be limited to, the following situations:

(1) During the preparation of a site for the placement of fills which exceed five feet in depth on slopes which exceed ten percent and during the placing of such fills; however, for vehicular pathways, fill placement shall be continuously inspected when fills exceed ten feet in height.

(2) During the preparation of a site for the placement of any fill which is intended to support any building or structure when the fill exceeds three feet in depth.

(3) During the installation of subsurface drainage facilities.

(b) Reports filed by the private Geotechnical Engineer or Civil Engineer regarding special inspection shall state in writing that from his personal knowledge the work performed during the period covered by the report has been performed in substantial accordance with the approved plans and specifications.

(c) The use of a private Geotechnical Engineer or Civil Engineer for inspections shall not preclude the Director of Public Works from conducting personal inspections or from authorizing inspections by other qualified inspectors as may be necessary.

SEC. 29.570 NON-COMPLIANCE NOTIFICATION BY PRIVATE GEOTECHNICAL ENGINEER OR CIVIL ENGINEER

The permittee shall cause the work to be done in accordance with the approved plans. If during the course of construction the private Geotechnical Engineer or Civil Engineer finds that the work is not being done substantially in accordance with the approved plans and specifications, he shall immediately notify the person in charge of the work and the Director of Public Works of the non-conformity and the corrective measures to be taken. When changes in the plans are required, he shall prepare or cause to be prepared such proposed changes and submit them to the Director of Public Works for approval.

SEC. 29.575 PERIODIC PROGRESS REPORTS BY PRIVATE GEOTECHNICAL ENGINEER OR CIVIL ENGINEER

As a condition of the report, periodic progress reports shall be rendered by the private Geotechnical Engineer or Civil Engineer as required by the Director of Public Works including, but not limited to, laboratory tests, slope stability, placement of materials, retaining walls, drainage, utilities and any special permit or plan requirements.

SEC. 29.580 PROGRESS REPORT BY PERMITTEE

Periodic progress reports shall be rendered by permittee on specified calendar dates and at commencement and completion of major key grading and erosion and sediment control operations. The dates of operations upon which such reports are required and their content shall be as required by the Director of Public Works in the permit.

SEC. 29.585 RECORD DRAWINGS

Permittee shall submit to the Director of Public Works a record drawing of the grading plan following completion of the work.

SEC. 29.590 PERFORMANCE OF WORK – INSPECTION/CERTIFICATION

The Director of Public Works may inspect any work or require certification by private engineer of any work done under a grading permit. No permittee shall be deemed to have complied with this ordinance unless one of the following has occurred:

- (a) a final inspection approval has been issued by the Department of Public Works, or;
- (b) submittal of certification of completion by the civil engineer or the geotechnical engineer of record, has been accepted by the Director of Public Works, or;
- (c) the final inspection has been waived in writing by the Director of Public Works.

The permittee shall provide adequate access to the site for inspection by the Director of Public Works during the performance of all work and for a minimum period of one year after completion of the work.

If the engineer of record is changed during the grading, the work shall be stopped until the replacement has agreed in writing to accept their responsibility within the area of technical competence for approval upon completion of the work. It shall be the duty of the permittee to notify the Director in writing of such change prior to the recommencement of such grading.

SEC. 29.595 OTHER RESPONSIBILITIES OF PERMITTEE

The permittee shall also be responsible for the following:

(a) Protection of Utilities: The permittee shall be responsible for the prevention of damage to any public utilities or services.

(b) Protection of Adjacent Property: The property owner is responsible for the prevention of damage to adjacent property. No person(s) shall excavate on land sufficiently close to the property line to endanger any adjoining public street, sidewalk, and alley or other public or private property, or easement, without supporting and protecting such property from damage, which might result.

(c) Advance Notice: The permittee shall notify the Director of Public Works at least 24 hours prior to the start of work.

(d) Erosion and Sediment Control: It shall be the responsibility of the permittee to control discharge of sediment from the site to any watercourse, drainage system, or adjacent property and to protect watercourses and adjacent properties from damage by erosion, flooding, or deposition which may result from the permitted grading.

(e) Hazardous Materials Control: It shall be the responsibility of the permittee to prevent discharge of hazardous materials from the site to any watercourse, drainage system, or adjacent property, and to protect watercourses and adjacent properties by hazardous materials, which may result from, permitted grading.

ARTICLE VI. DESIGN STANDARDS

SEC. 29.600 EXCAVATION

Excavations shall be constructed or protected so that they do not endanger life or property.

SEC. 29.605 EXCAVATION SLOPE

The slope of cut surfaces of permanent excavations shall not be steeper than two horizontal to one vertical exclusive of terraces and exclusive of rounding described herein. Steeper slopes will be permitted in competent bedrock provided such slope inclinations are in accordance with recommendations contained in the geotechnical or geological report. The bedding planes, foliation planes or principal joint sets in any formation when dipping towards the cut face shall not be daylighted by the cut slope unless the soils and geologic investigations contain recommendations for steeper cut slopes. Cut slopes shall be rounded into the existing terrain to produce a contoured transition from cut face to natural ground.

SEC. 29.610 FILL PLACEMENT

Fills shall be constructed in layers. The loose thickness of each layer of fill material before compaction shall not exceed eight inches. Completed fills shall be stable masses of well-integrated material bonded to adjacent materials and to the materials on which they rest. Fills shall be competent to support anticipated loads and be stable at the design slopes shown on the plans. Proper surface and subsurface drainage and other appropriate measures shall be taken to ensure the continuing integrity of fills. Earth materials shall be used which have no more than minor amounts of organic substances and have no rock or similar irreducible material with a maximum dimension greater than twelve (12) inches. Larger material may be used with the approval of the Director of Public Works and the Geotechnical Engineer.

SEC. 29.615 FILL COMPACTION

All fills shall be compacted throughout their full extent to a minimum of 90 percent of maximum density as determined by the appropriate Caltrans standard method or other alternate methods approved by the Director of Public Works. Tests to determine the density of compacted fills shall be made on the basis of not less than one test for each two-foot vertical lift of the fill but not less than one test for each 1000 cubic yards of material placed. Additional density tests at a point approximately one-foot below the fill slope surface shall be made on the basis of not less than one test for each 1000 square feet in slope surface but not less than one test for each ten-foot vertical increase of slope height. All tests shall be reasonably uniformly distributed

within the fill or fill slope surface. Results of such testing and location of tests shall be presented in the periodic and final reports. Compaction may be less than 90 percent of maximum density, as determined by the above test, within six inches of the slope surface when such surface material is placed and compacted by a method acceptable to the Director of Public Works for the planting of the slopes. Compaction of temporary stockpile fills, to be used for a period of not greater than six months, shall not be required, except where the Director of Public Works determines that compaction is necessary as a safety measure to aid in preventing saturation, sliding, or erosion of the fill.

SEC. 29.620 GROUND PREPARATION FOR FILL PLACEMENT

The natural ground surface shall be prepared to receive fill by removing vegetation, non-complying fill, topsoil, and other unsuitable material, and where slopes are six horizontal to one vertical or steeper, by benching into competent material in a manner acceptable to the Director of Public Works. The keyway under the toe, if specified, shall be at least fifteen feet wide.

SEC. 29.625 FILL SLOPES

The slope of permanent fills shall not be steeper than two horizontal to one vertical exclusive of terraces and exclusive of roundings described herein, unless a soils report supports a steeper slope, but shall not exceed 1.5 horizontal to 1 vertical unless the fill is reinforced as recommended by the Geotechnical Engineer. The Director of Public Works may require that the fill be constructed with an exposed surface flatter than two horizontal to one vertical or may require such other measures as he deems necessary for stability and safety.

SEC. 29.630 ADJACENT STRUCTURES PROTECTION

Footings which may be affected by any excavation shall be underpinned or otherwise protected against settlement and shall be protected against lateral movement. Fills or other surcharge loads shall not be placed adjacent to any building or structure unless such building or structure is capable of withstanding the additional loads caused by such fill or surcharge. The rights of coterminous owners shall be as set forth in Section 832 of the Civil Code of the State of California.

SEC. 29.635 SETBACKS - GENERAL

Unless otherwise recommended in a soil or geologic investigation report, Chapter 29 and 70 of the latest County adopted version of the Uniform Building Code shall be used for establishing setbacks for property boundaries, buildings and structures other than fences and retaining walls.

SEC. 29.640 DRAINAGE - GENERAL

Any drainage structure(s) or device(s) carrying surface water runoff required by this ordinance shall be designed and constructed in accordance with standards herein, the current Placer County Flood Control and Water Conservation District Storm Water Management Manual and criteria authorized by the Director of Public Works.

SEC. 29.645 DRAINAGE DISCHARGE REQUIREMENTS

All drainage facilities shall be designed and engineered to carry surface and subsurface waters to the nearest adequate street, storm drain, natural watercourse, or other juncture, and shall be subject to the approval of the Director of Public Works.

SEC. 29.650 DRAINAGE - WATER ACCUMULATION

All areas shall be graded and drained so that drainage will not cause erosion or endanger the stability of any cut or fill slope or any building or structure.

SEC. 29.655 DRAINAGE PROTECTION OF ADJOINING PROPERTY

When surface drainage is discharged onto any adjoining property, it shall be discharged in such a manner that it will not cause erosion or endanger any cut or fill slope or any building or structure.

SEC. 29.660 TERRACE DRAINAGE

Terraces at least eight feet in width shall be established at not more than 25 feet in height intervals for all cut and fill slopes exceeding 30 feet in height. Where only one terrace is required, it shall be at approximately mid-height. Suitable access shall be provided to permit proper cleaning and maintenance of terraces and terrace drains. Swales or ditches on terraces shall have a minimum depth of one foot, a minimum longitudinal grade of four percent, a maximum longitudinal grade of twelve percent. Down-drains or drainage outlets shall be provided at

approximately 300-foot intervals along the drainage terrace. Down-drains and drainage outlets shall be of approved materials and of adequate capacity to convey the intercepted waters to the point of disposal. If the drainage discharges onto natural ground, adequate erosion protection shall be provided.

SEC. 29.665 SUBSURFACE DRAINAGE

Cut and fill slopes shall be provided with surface and/or subsurface drainage as necessary for stability.

SEC. 29.670 EROSION AND SEDIMENT CONTROL

The following shall apply to the control of erosion and sediment from grading operations:

Grading plans shall be designed with long-term erosion and sediment control as a primary consideration.

(b) Grading operations during the rainy season shall provide Erosion and Sediment Control measures except upon a clear demonstration, to the satisfaction of the Director of Public Works, that at no stage of the work will there be any substantial risk of increased sediment discharge from the site.

(c) Should grading be permitted during the rainy season, the smallest practicable area of erodible land shall be exposed at any one time during grading operations and the time of exposure shall be minimized.

(d) Natural features, including vegetation, terrain, watercourses and similar resources shall be preserved wherever possible. Limits of grading shall be clearly defined and marked to prevent damage by construction equipment.

(e) Permanent vegetation and structures for erosion and sediment control shall be installed as soon as possible.

(f) Adequate provision shall be made for long-term maintenance of permanent erosion and sediment control structures and vegetation.

(g) No topsoil shall be removed from the site unless otherwise directed or approved by the Director of Public Works. Topsoil overburden shall be stockpiled and redistributed where appropriate within the graded area after rough grading to provide a suitable base for seeding and planting. Runoff from the stockpiled area shall be controlled to prevent erosion and resultant sedimentation of receiving water.

(h) Runoff shall not be discharged from the site in quantities or at velocities substantially above those, which occurred before grading except into drainage facilities, whose design has been specifically approved by the Director of Public Works.

(i) The Permittee shall take reasonable precautions to ensure that vehicles do not track or spill earth materials into public streets and shall immediately remove such materials if this occurs.

SEC. 29.675 EMERGENCY CONDITIONS

Should increased sediment discharge occur or become imminent, the permittee shall take all necessary steps to control or reduce such discharge. Such steps may include construction of additional facilities or removal or alteration of facilities required by approved erosion and sediment control plans. Facilities removed or altered shall be restored as soon as possible afterward or appropriate changes in the plan shall be immediately required pursuant to this Ordinance. The permittee shall take prompt action to resolve emergency problems; otherwise the Director of Public Works may institute abatement proceedings pursuant to provisions of Section 29.810(b) herein.

SEC. 29.680 EROSION AND SEDIMENT CONTROL PLANS

Erosion and sediment control plans prepared pursuant to this Ordinance shall comply with all of the following:

(a) The erosion and sediment control plan need not be a separate sheet if all facilities and measures can be shown on the grading sheets without obscuring the clarity of either the grading plan or the erosion and sediment control plan.

(b) An erosion and sediment control plan shall be required whenever:

(1) The graded portion of the site includes more than 10,000 square feet of area having a slope greater than ten (10) percent, or;

Clearing and grubbing of areas of one acre or more regardless of slope, or;

(3) There is a significant risk that more than 2,500 square feet will be unprotected or inadequately protected from erosion during any portion of the rainy season, or;

(4) Grading will occur within 20 feet of any watercourse, or;

(5) The Director of Public Works determines that the grading will or may pose a significant erosion or sediment discharge hazard for any reason.

(c) Sediment and erosion control measures must be in place or be capable of being placed within 24 hours, in the opinion of the Director, by October 15. The Director may require suspension of any and all grading activities between October 15 and May 1 without prior notice.

(d) The applicant shall submit with the erosion and sediment control plans, a detailed cost estimate covering this work.

(e) Erosion and sediment control plans shall include an effective revegetation program to stabilize all disturbed areas, which will not be otherwise protected. All such areas

where grading has been completed between April 1 and October 15 shall be planted by November 1. Graded areas completed at other times of the year shall be planted within 15 days. If revegetation is infeasible or cannot be expected to stabilize an erodible area with assurance during any part of the rainy season and the unstable area exceeds 2,500 square feet, additional erosion and sediment control measures or irrigation of planted slopes may be required as appropriate to prevent increased sediment discharge.

(f) Erosion and sediment control plans shall be designed to prevent increased discharge of sediment at all stages of grading and development from initial disturbance of the ground to project completion. Every feasible effort shall be made to ensure that site stabilization is permanent. Plans shall indicate the implementation period and the stage of construction where applicable.

(g) Erosion and sediment control plans shall comply with the recommendations of the responsible Civil Engineer, Geotechnical Engineer, Engineering Geologist, or Landscape Architect involved in preparation of the grading plans.

(h) The structural and hydraulic adequacy of all storm water containment or conveyance facilities shown on the erosion and sediment control plans shall be verified by a Civil Engineer, and he shall so attest on the plans. Sufficient calculations and supporting material to demonstrate such adequacy shall accompany the plans when submitted.

(i) Erosion and sediment control plans shall be designed to meet anticipated field conditions.

(j) Erosion and sediment control plans shall provide for inspection and repair of all erosion and sediment control facilities at the close of each working day during the rainy season and for specific sediment cleanout and vegetation maintenance criteria.

(k) Erosion and sediment control plans shall comply with any and all standards and specifications adopted herein for the control of erosion and sedimentation on grading sites. These standards and specifications shall be in general compliance with the current Erosion and Sediment Control Guidelines for Developing Areas of the Sierras published by the High Sierra Resource Conservation District.

SEC. 29.685 VEHICULAR WAYS - GENERAL

Vehicular ways shall conform to the grading requirements of this ordinance.

SEC. 29.690 VEHICULAR WAYS - DRAINAGE

Vehicular ways shall be graded and drained in such a manner that will not allow erosion or endanger the stability of any adjacent slope. Surface discharge onto adjoining property shall be controlled in such a manner that it does not cause erosion or endanger existing improvements. Bridges and culverts installed in watercourses may be reviewed by the Placer County Flood Control and Water Conservation District and must be approved by the Public Works Director, and any other required permitting agency.

ARTICLE VII. IMPROVEMENT SECURITY

SEC. 29.700 SECURITY REQUIRED

(a) As a condition for the issuance of a permit, the Director of Public Works may require the deposit of improvement security in sufficient amount deemed necessary to assure performance of the work in the event of default on the part of permittee or, in the case of a subdivision, where the permittee does not proceed with preparation and obtaining the approval of a final map. Said security shall be in a form acceptable to Placer County.

(b) In the case of subdivisions, the improvement security shall remain in effect until final inspections have been made of all grading work and the Board of Supervisors of Placer County has accepted the subdivision improvements.

(c) For projects other than subdivisions, the improvement security shall remain in effect until final inspections have been made and the Director of Public Works has approved all grading work.

(d) In addition to the improvement security, the Director of Public Works may also require the deposit of maintenance security in sufficient amount deemed necessary to guarantee and maintain the grading work and to assure the proper functioning of drainage systems and adequate erosion and sedimentation control. Said maintenance security shall be in a form acceptable to Placer County and shall remain in effect for a period of one year after the date of acceptance of the improvements as designated in Subsections (b) and (c) above.

(e) Any deposit required by the Director of Public Works pursuant to this ordinance shall be payable to the Placer County Department of Public Works.

(f) Upon satisfaction of applicable provisions of this Ordinance, the improvement and maintenance security deposits will be released. However, upon failure to complete the work, failure to comply with all of the terms of the permit, or failure of the completed site to function properly to provide proper drainage or erosion and sedimentation control, the County may do the required work, or cause it to be done and collect from the permittee or surety all costs incurred thereto, including administrative, inspection and legal costs.

ARTICLE VIII. ENFORCEMENT

SEC.29.800 VIOLATIONS

Failure to comply with the following shall constitute a violation of this ordinance:

(a) All orders issued by the Director of Public Works pursuant to the provisions of this ordinance.

(b) All conditions placed on grading permits.

(c) All rules and regulations of Placer County.

SEC. 29.810 NUISANCE

(a) Established Nuisances Per Se. The Board of Supervisors of Placer County ordains that the following violations of this ordinance constitute public nuisances.

A violation has altered natural drainage patterns and has or will cause flooding to adjacent property; or

A violation has created a threat to public health, safety, or welfare.

(b) Nuisance Abatement Procedure In accordance with California Government Code §25845, the Placer County Board of Supervisors hereby establishes the procedure for abatement of a nuisance. Upon the discovery of a nuisance, County staff shall comply with the following procedures:

(1) Upon discovery of a nuisance, the owner of the parcel, and anyone known to be in possession of the parcel shall be given notice of the nuisance abatement proceeding. The notice shall provide for an opportunity to appear and be heard before the Board of Supervisors prior to the abatement of the nuisance by County.

(2) Notwithstanding the foregoing, nothing in this ordinance shall prohibit the summary abatement of a nuisance upon order of the Board of Supervisors, or upon order of any other County officer authorized by law to summarily abate nuisances, if the board or officer determines that the nuisance constitutes an immediate threat to public health or safety.

(3) In any action to abate a nuisance, whether by administrative proceedings, judicial proceedings or summary abatement, the owner of the parcel upon which the nuisance is found to exist shall be liable for all costs of abatement incurred by the County, including, but not limited to, administrative costs, and any and all costs incurred in abatement of nuisance. Recovery of costs pursuant to this paragraph shall be in addition to and shall not limit any prevailing party's right to recover costs pursuant to §1032 and 1033.5 of the Code of Civil Procedure or any other provision of law. A prevailing party may also recover attorneys' fees in any action, administrative proceeding, or special proceeding to abate a nuisance, if County elects at the initiation of the individual action or proceeding, to seek recovery of its own attorneys' fees. In no action, administrative proceeding, or special proceeding shall an award of attorneys' fees to a prevailing party exceed the amount of reasonable attorneys' fees incurred by the County in the action or proceeding.

(4) If the property owner fails to pay the costs of the abatement upon demand by County, the Board of Supervisors may order the cost of the abatement to be specially assessed against the parcel. The assessment may be collected at the same time and in the same manner as ordinary County taxes are collected, and shall be subject to the same penalties and the same procedure and sale in case of delinquency as are provided for ordinary County taxes. All laws applicable to the levy, collection, and enforcement of County taxes shall be applicable to this special assessment.

(5) If the Board of Supervisors specially assesses the cost of the abatement against the parcel, the board also may cause a notice of abatement lien to be recorded. The notice shall, at a minimum, identify the record owner or possessor of property, set forth the last

known address of the record owner or possessor, set forth the date upon which abatement of the nuisance was ordered by the Board of Supervisors and the date the abatement was complete, and include a description of the real property subject to the lien and the amount of the abatement cost.

However, if the Board of Supervisors does not cause the recordation of a notice of abatement lien pursuant to paragraph 5 above, and any real property to which the costs of abatement relates has been transferred or conveyed to a bona fide purchaser for value, or a lien on a bona fide encumbrance for value has been created and attaches to that property, prior to the date on which the first installment of County taxes would become delinquent, then the cost of abatement shall be transferred to the unsecured roll for collection.

(6) Recordation of a notice of abatement lien pursuant to paragraph 5 above has the same effect as recordation of an abstract of a money judgment recorded pursuant to Article 2 (commencing with Section 697.310) of Chapter 2 of Division 2 of Title 9 of Part 2 of the Code of Civil Procedure. The lien created has the same priority as a judgment lien on real property and continues in effect until released. Upon order of the Board of Supervisors, or any other county officer authorized by the Board of Supervisors to act upon its behalf, an abatement lien created under this section may be released or subordinated in the same manner as a judgment lien on real property may be released or subordinated.

(7) The Board of Supervisors may delegate the hearing required by paragraph 1 above prior to abatement of a public nuisance, to a hearing board designated by the Board of Supervisors. The hearing board shall make a written recommendation to the Board of Supervisors. The Board of Supervisors may adopt the recommendation without further notice of hearing, or may set the matter for a de novo hearing before the Board of Supervisors.

(8) The Board of Supervisors may, by ordinance, delegate to a hearing officer appointed pursuant to Government Code §27720 the powers and duties specified by this section.

(c) Upon entry of a second or subsequent civil or criminal judgment within a two-year period finding that an owner of property is responsible for a condition that may be abated in accordance with this ordinance enacted pursuant to California Government Code §25845, except for conditions abated pursuant to §17980 of the Health and Safety Code, the court may order the owner to pay treble the costs of the abatement.

SEC. 29.815 STOP WORK ORDERS

(a) Whenever any person is performing work in violation of the provisions of this ordinance, the Director may issue a written order to the responsible party to stop work on the portion of the work where the violation has occurred or upon which the danger exists. If there are no persons present on the premises, the notice may be posted in a conspicuous place. The notice shall state the nature of the violation.

(b) Upon receipt of such stop work order the person performing the work shall:

(1) Stop work immediately; and

(2) Within twenty-four (24) hours provide the Director with a list of remedies which can be immediately undertaken to bring the work into compliance with this ordinance; and

(3) Within twenty-four (24) hours after approval of a remedy by the Director undertake, at the violator's sole expense, such action as is necessary to bring the work into compliance with this ordinance.

(c) If the responsible party fails to comply with the stop work order served pursuant to this section, the County may use any and all remedies available to it under this ordinance, in law, or in equity, including but not limited to: shutting down all work on the site, performing the corrective work either with County crews or by contract, or arresting the responsible party for violation of this ordinance.

SEC. 29.820 MISDEMEANOR VIOLATION

Notwithstanding any other provisions of this Code, any person violating any provisions of this ordinance shall be guilty and punishable as provided in Section 1.7 of Chapter 1 of a misdemeanor. Each such person shall be charged with a separate offense for each and every day or portion thereof during which any violation of this ordinance is committed, continued, or permitted. Upon conviction of any such violation said person shall be punishable by a fine of not more than one thousand dollars or by imprisonment in the County jail for not more than six (6) months, or by both such fine and imprisonment.

SEC. 29.825 INVESTIGATION FEES/WORK WITHOUT A PERMIT

Whenever any work for which a permit is required by this ordinance has been commenced without first obtaining the permit, the Director shall require an investigation before issuing a permit for such work. In this case, the violator shall be charged for the department's labor and costs incurred during the investigation, in addition to the regular permit fees.

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